

STAR PREDICTION TABLES FOR THE FIXING OF POSITION

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STAR PREDICTION TABLES FOR
THE FIXING OF POSITION
(EPOCH 1980)

FOR LATITUDES BETWEEN

N60° and S60°

Section 1 : Longitude Observation Prediction (pp 1-116)
contain prediction information to enable an observer to
make timed zenith distance measurements on a pair of
stars in quick succession, one star near the east and
the other near the west Prime Vertical, for the determination
of longitude. Latitude interval 5°.

Section 2 : Position Line Observation Prediction (pp 117-177)
contain prediction information to enable an observer to
make timed zenith distance measurements on stars at
approximately 45° zenith distance near the centres of the
azimuth quadrants, for the simultaneous determination of
latitude and longitude. Latitude interval 2°.

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STAR PREDICTION TABLES FOR THE FIXING OF POSITION

1. General Remarks

Many geodetic authorities throughout the world make use of the modern high speed electronic computer in the preparation of star prediction programmes, which are used by astronomical observation parties to assist them in their work. For the most part, these programmes are prepared well in advance of being taken into the field by the observing party, which knows that it is expected to be in the vicinity of a specified latitude and longitude on an approximate date. These programmes, which are taken into the field have a restricted scope, sufficient for the job in hand, but limited in time and place. If general tables or lists, which cover a wide latitude range are desired, then there are two ways of preparing this information in compact form:-

- (1) Tables of double entry are calculated, with latitude and declination as arguments, the respondent values being calculated for specific observational circumstances, such as transit, elongation, fixed altitude, etc. Tables of this type have the advantage that the information contained in them is not ephemeral, but on the other hand, the process of double interpolation, to find the respondent values for a particular star, is somewhat tedious. In certain circumstances, i.e. in the vicinity of local maxima and minima, linear interpolation may lead to large errors unless the argument intervals are kept small, which may ultimately necessitate the preparation of tables whose sheer bulk outweighs their usefulness.

- (2) Lists of altitude, azimuth and local sidereal time for stars which conform to a particular observational circumstance are calculated for fixed values of latitude. Only single interpolation of the respondent values will be necessary, although the problems of local maxima and minima will still be present but confined to one respondent value. However, on the debit side, the right ascension and declination of stars in the data set will change slowly over the years until eventually these coordinate changes induce changes in the values of the respondents which are unacceptable for the purpose of locating the stars with certainty, although these values may still be quite acceptable for a first stage process of selecting available stars. This latter aspect i.e. selecting stars to fulfil particular conditions in order to minimise systematic and random errors is probably the most time consuming part of any prediction process.

2. Description of the Tables

The second of the methods described has been adopted for these tables, which have been prepared using the IBM 360 Computer from mean places of stars for the epoch 1980. The difference between the predicted values of the zenith distance and azimuth from the tables and accurate values calculated at an epoch 10 years remote from that from which the tables have been constructed does not exceed 0.4 degree and on the average will be smaller than this value. A discrepancy of this magnitude should be quite acceptable when

attempting to locate stars in the field of view of most small theodolites. In addition, tables (unpublished) from mean places of stars for the epoch 2000 have been prepared.

The data set used for the preparation of these tables is based on the mean places of stars in the FK4 Catalogue for the epoch 1950. Updating to the epochs 1980 and 2000 was carried out using Newcomb's formulae. Stars fainter than magnitude 5.5 have been excluded. Although it would have been possible to include additional stars from other catalogues which are within the limits of magnitude that have been set, it was felt that because of its superior accuracy and general availability the FK4 Catalogue was particularly suitable and was therefore adopted.

The Tables have been prepared for use primarily for observations made with a theodolite, whose telescope is not set and clamped at a chosen zenith distance, but if it is desired to make observations at a fixed zenith distance, then with a little extra manipulation the appropriate values can be found. Values of calculated local sidereal times (LST), zenith distances (ZD) and azimuths (AZ) are given to 1 minute of time and 0.1 degree. The tables have been devised so that any loss of accuracy through interpolation is confined entirely to zenith distances and azimuths because the quoted values of LST are exact and not rounded off. The tables, covering the latitude range $S60^{\circ}$ to $N60^{\circ}$, are in two sections.

Section 1: Longitude Observation Prediction (pp.1-116) contain prediction information to enable an observer to make timed zenith distance measurements on a pair of stars in quick succession, one star near the east and the other near the west Prime Vertical, for the determination

of longitude. If the observer makes an equal number of measurements on each star at a constant rate, quickly changing over from one star to the other at the central tabulated LST, then the average zenith distance for each star will be very nearly equal, thus satisfying the requirements for the minimisation of the effects of systematic errors, which may be present in the calculated refraction or in the assumed value of the latitude.

The ranges for which this section of the tables have been constructed is as follows:-

For azimuth:- 10° on either side of the Prime Vertical
i.e. Amplitude of 10° .

For zenith distance:- 40° - 60°

For declination difference:- 3°

The selection process produced a number of star pairs varying from 220 to 330 over the 24 hour period for the 5° latitude interval and inevitably a large number of these pairs were very close together in time. For each latitude range the set was then culled to give a selection such that, except where stars might be mis-identified, no star pair was closer in time to the neighbouring pairs than 10 minutes. This culling could obviously be done in a number of ways and in making the final selection the following principles were adopted:-

- (1) the total number of pairs of stars should be a maximum having regard to the 10 minute interval.
- (2) preference was given to star pairs with magnitudes in the range 1 to 5, the brightness of the fainter star of the pair being the main criterion.

- (3) if there was a possibility of mis-identification owing to there being two or more pairs with different stars at about the same azimuths and zenith distances and the same LST, then all the possible pairs were included.

Section 2: Position Line Observation Predictions (pp.117-177), contain prediction information to enable an observer to make timed zenith distance measurements on stars at approximately 45° zenith distance near the centres of the azimuth quadrants, for the simultaneous determination of latitude and longitude. If the observer makes an equal number of measurements on each of four stars, one in each quadrant, at a constant rate, starting and finishing at times which are at equal intervals before and after the tabulated LST, then the average zenith distance for each star will be very nearly equal. If the four stars are chosen such that the total observing time is short then, as with the longitude observations, the effects of systematic errors which may be present in the calculated refraction will be minimised.

It was originally intended to prepare lists of stars which could be observed at approximately 45° zenith distance within 5° of the centres of the azimuth quadrants. However it was found that the number of available stars decreased

rapidly in the southern quadrants in high north latitudes and in the northern quadrants in high south latitudes.

To remedy this situation the azimuth range of these quadrants was extended to $7\frac{1}{2}^{\circ}$ on either side of the quadrant centres for latitudes above 30° . In addition it was found that it was necessary to keep the latitude interval small, i.e. 2° in order to maintain a reasonable number of stars which were common to both latitudes.

To facilitate the calculation of azimuths and zenith distances at instants shortly before or after those which are tabulated, two quantities designated A and B have been tabulated for each star. The values of azimuth and zenith distance 10 minutes earlier than those tabulated may be found by adding the A factor to the azimuth and the B factor to the zenith distance.

3. Examples to illustrate the use of the tables:

- (a) Select 2 pairs of stars suitable for the determination of longitude for the following circumstances:-

Station: Irkutsk (ϕ N $52^{\circ}17'$, λ E $6^{\text{h}}57^{\text{m}}23^{\text{s}}$).

Date : 10th June, 1974.

Start of Programme: About 23^{h} Standard Time (Time Zone E 7^{h})

Instrument : Theodolite, telescope unclamped.

Observation: 10 minutes on each star.

Standard Time	23 ^h
Time Zone	E <u>7</u>
U.T.	16
GST at UTO ^h	17 11 ^m 52 ^s
Conversion Mean to Sidereal Time	<u>2 38</u>
GST	9 14 30
λ	E <u>6 57 23</u>
LST of the start of the programme	<u>16 11 53</u>

See page 110 of the tables.

$$\text{Interpolation factor } \frac{(52^{\circ}17') - 50^{\circ}}{5^{\circ}} = 0.46$$

Pair	Cat.No. Mag.	WEST		LST	EAST		Cat.No. Mag.
		ZD	AZ		AZ	ZD	
1	461	40.5 ^o	274.2 ^o	16 ^h 11 ^m	80.3 ^o	43.5 ^o	765
	5.2	42.1	276.0	16 21	82.0	42.1	2.3
		43.6	277.8	16 31	83.8	40.5	
2	1332	48.9	263.0	16 41	92.1	52.1	786
	5.1	50.4	265.1	16 51	94.1	50.6	5.2
		51.9	267.2	17 01	96.2	49.1	

- (b) Select 4 stars, one in each of the azimuth quadrants suitable for the simultaneous determination of latitude and longitude for the following circumstances:

Station: Rio de Janeiro (ϕ S22^o54' , λ W2^h52^m45^s)

Date: 15th April, 1974.

Start of programme: About 21^h Standard Time (Time Zone W3^h)

Instrument: Theodolite, telescope unclamped.

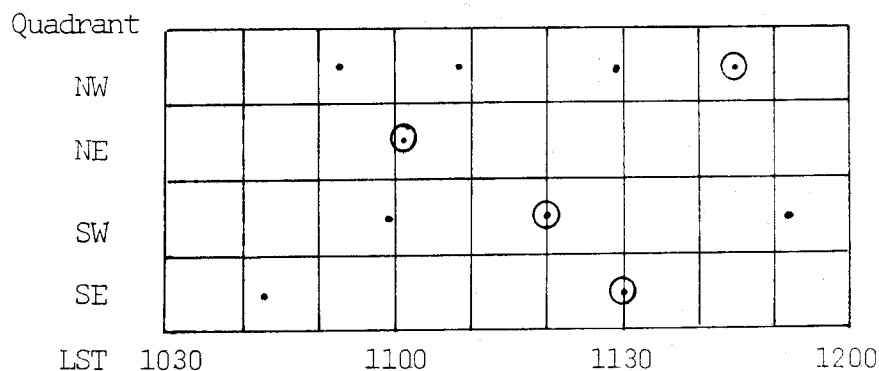
Observation: 10 minutes on each star.

Standard Time	21 ^h
Time Zone	W 3
U.T. (16th April 1974)	0
GST	13 35 ^m 02 ^s
λ	2 52 45
LST of the start of the programme	10 42 17

See page 136 of the tables.

$$\text{Interpolation factor} = \frac{(22^{\circ} 54') - 22^{\circ}}{2^{\circ}} = 0.45$$

To assist in the preparation of a programme which will have the shortest duration it will be found convenient to plot the stars on a small diagram as follows:-



The values of azimuth and zenith distance for any short time interval before or after the tabulated value of LST are found by using the A and B "factors" which are quoted for each star. The values of azimuth and zenith distance 10 minutes earlier than those tabulated or interpolated are found by adding the A factor to the azimuth and the B factor to the zenith distance.

In the following example $\frac{A}{2}$ and $\frac{B}{2}$ have been used since the desired observation interval was 5 minutes before and after the tabulated LST.

Quadrant	Cat.No. Mag.	AZ	ZD	LST
NE	488	45 ⁰ .4	45 ⁰ .7	10 ^h 56 ^m
	3.0	44.1	44.9	11 01
		42.8	44.1	11 06
SW	309	224.9	44.3	11 15
	1.9	225.2	45.1	11 20
		225.5	45.9	11 25
SE	541	134.6	45.9	11 25
	2.9	134.9	45.1	11 30
		135.2	44.3	11 35
NW	365	315.0	44.1	11 40
	3.8	313.7	44.9	11 45
		312.4	45.8	11 50

- (c) Select 2 pairs of stars suitable for the determination of longitude for the following circumstances:-

Station: Ottawa (ϕ N45⁰24' , λ W5^h02^m52^s)

Date: 22nd July, 1974.

Start of Programme: About 22^h Standard Time (Time Zone W5^h).

Instrument: Theodolite, telescope clamped at a specific zenith distance for each pair of stars.

Standard Time	22 ^h
Time Zone	W 5
U.T. (23rd July 1974)	3
GST at UTO ^h	20 01 ^h 24 ^s
Conversion Mean to Sidereal Time	29
GST	23 01 53
λ	W 5 02 52
LST of the start of programme	17 59 01

See Page 105 of the tables.

$$\text{Interpolation factor} = \frac{(45^{\circ}24') - 45^{\circ}}{5^{\circ}} = 0.08$$

The calculation is done in two stages

- (i) Interpolate the zenith distance and azimuth at the required latitude for the first and second tabulated LST's for the west star. Repeat this for the east star for the second and third tabulated LST's.
- (ii) Select a whole minute instant before the second tabulated LST for the west star and interpolate the zenith distance and azimuth. With this value of zenith distance interpolate the azimuth and LST for the east star.

NOTE: The whole minute instant is selected such that there is a conveniently comfortable interval between the observations on each star.

Pair	Cat.No. Mag.	WEST		LST	LST	EAST		Cat.No. Mag.
		ZD	AZ			AZ	ZD	
1	534	43.9 ^o	269.3 ^o	18 ^h 05 ^m	18 ^h 05 ^m			835
	3.8	45.6	271.0	18 15	18 15	84.3	45.9	4.4
				18 25	18 25	85.9	44.2	
		45.4	270.8	18 14	18 17.9	84.8	45.4	
2	1380	45.8	270.2	18 17	18 17			1590
	4.5	47.6	271.9	18 27	18 27	83.7	47.7	5.5
				18 37	18 37	85.3	45.9	
		47.4	271.7	18 26	18 28.7	84.0	47.4	

- (d) Select 4 stars, one in each of the azimuth quadrants suitable for the simultaneous determination of latitude and longitude from equal altitude observations for the following circumstances:-

Station: Sydney (ϕ S33°55' , λ E10^h04^m56^s)

Date: 20th May, 1974.

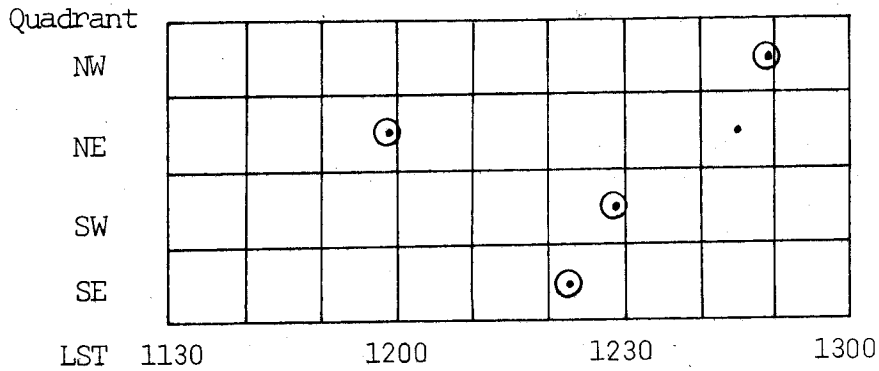
Start of Programme: About 20^h Standard Time (Time Zone E10^h)

Instrument: Theodolite, telescope clamped at a specific zenith distance for all the stars.

Standard Time	20 ^h
Zone	E 10
UT	10
GST at UTO ^h	15 49 ^m 05 ^s
Conversion Mean to Sidereal Time	1 38
GST	1 50 43
λ	E 10 04 56
LST of the start of the programme	11 55 39

See page 131 of the tables.

$$\text{Interpolation factor} = \frac{(33^{\circ}55') - 32^{\circ}}{2^{\circ}} = 0.96$$



The calculation is done in two stages:

- (1) Interpolate the azimuth (AZ_I) and the zenith distance (ZD_I) for the required latitude for the tabulated LST (LST_T).
- (2) The LST (LST_{45}) and the azimuth (AZ_{45}) when the star is at 45° zenith distance is then,

$$LST_{45} = LST_T + \frac{10}{B} (ZD_I - 45) = LST_T + \Delta T$$

$$\& \quad AZ_{45} = AZ_I - \frac{\Delta T \cdot A}{10}$$

where A and B are the tabulated A and B factors for the star and ΔT is in minutes of time.

NOTE: Allowance must be made for ΔT when selecting the stars from the diagram otherwise it may be found that there is insufficient time to observe on stars whose times are brought close together after ΔT has been applied to the tabulated LST's.

Quadrant	Cat.No. Mag.	AZ	ZD	LST
NE	516	45 ^o .1	45 ^o .6	11 ^h 59 ^m
	4.3	44.0	45.0	12 03.0
SE	600	135.8	44.4	12 23
	5.1	135.7	45.0	12 18.7
SW	1227	226.6	44.4	12 29
	3.7	226.6	45	12 33.0
NW	1284	320.0	45.6	12 49
	5.1	321.3	45	12 44.7

LONGITUDE OBSERVATION PREDICTION

CAT NO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CAT NO
		% D. LAT-60	% D. LAT-55	LAT-60	LAT-55	HRS	MIN	LAT-60	LAT-55	LAT-60	LAT-55		
751	4.4	45.9	45.9	273.9	269.1	0	4	88.1	92.5	48.6	48.6	4.1	1121
		47.1	47.2	271.7	267.1	0	14	85.9	90.5	47.4	47.2		
		49.4	48.6	269.5	265.1	0	24	83.6	88.4	46.1	45.8		
751	4.4	49.7	49.3	268.5	264.1	0	29	94.8	98.8	51.5	52.1	4.9	197
		50.3	50.8	266.3	262.2	0	39	92.7	96.9	50.2	50.7		
		51.5	52.2	264.3	260.4	0	49	90.6	94.9	49.0	49.2		
751	4.4	50.6	51.2	265.7	261.7	0	42	96.1	99.8	53.3	54.0	2.8	215
		51.0	52.6	263.6	259.8	0	52	94.0	97.9	52.0	52.6		
		53.1	54.0	261.6	258.0	1	2	91.9	96.0	50.8	51.1		
779	4.3	56.8	56.4	276.3	273.0	1	13	82.5	85.4	59.6	59.0	3.8	217
		58.1	57.9	274.0	270.9	1	23	80.2	83.3	58.3	57.6		
		59.3	59.3	271.9	268.9	1	33	77.9	81.1	57.1	56.2		
791	4.6	55.7	55.7	279.0	275.5	1	23	80.2	83.3	58.3	57.6	3.8	217
		56.9	56.5	276.7	273.4	1	33	77.9	81.1	57.1	56.2		
		59.2	57.9	274.4	271.3	1	43	75.5	78.9	55.9	54.8		
1550	4.7	52.1	52.3	269.6	265.8	1	36	90.3	93.9	54.9	55.1	3.1	240
		53.3	53.7	267.5	263.8	1	46	88.2	91.9	53.6	53.6		
		54.6	55.1	265.4	261.9	1	56	86.0	89.8	52.4	52.2		
822	3.2	42.7	42.5	274.8	269.4	1	46	86.2	91.1	45.4	45.2	3.2	223
		43.9	43.9	272.6	267.4	1	56	83.9	89.1	44.1	43.8		
		45.2	45.4	270.4	265.4	2	6	81.6	87.0	42.9	42.4		
822	3.2	44.6	44.6	271.5	266.4	2	1	88.0	92.6	47.2	47.2	4.5	238
		45.8	46.1	269.3	264.5	2	11	85.7	90.6	45.9	45.8		
		47.1	47.5	267.2	262.6	2	21	83.5	88.5	44.7	44.4		
832	4.6	48.6	48.4	274.1	269.7	2	27	89.0	93.0	51.1	51.2	3.8	1150
		49.8	49.8	271.9	267.7	2	30	86.9	91.0	49.8	49.7		
		51.1	51.3	269.7	265.7	2	40	84.5	89.0	48.6	48.3		
845	5.5	42.6	42.8	270.9	265.4	2	31	90.5	95.5	45.1	45.4	5.3	1178
		43.8	44.2	268.7	263.5	2	41	88.4	93.6	43.9	44.0		
		45.1	45.6	266.6	261.7	2	51	86.1	91.6	42.6	42.5		
1599	5.4	41.1	41.1	273.4	267.6	2	42	88.1	93.4	43.8	43.8	5.3	1178
		42.4	42.5	271.1	265.7	2	52	85.9	91.4	42.5	42.4		
		43.6	44.0	269.0	263.8	3	2	83.6	89.3	41.3	41.0		
867	1.3	47.4	48.7	280.3	276.0	2	54	90.6	84.5	52.1	51.4	3.7	1183
		50.6	50.1	277.0	273.8	3	4	78.3	82.4	50.8	50.4		
		51.9	51.6	275.6	271.7	3	14	75.9	80.1	49.6	48.6		
854	4.2	55.7	55.5	274.3	270.9	3	11	85.5	88.6	58.4	58.2	3.5	1214
		57.1	57.3	272.1	268.9	3	21	83.2	86.5	57.2	56.8		
		58.2	58.4	269.0	266.8	3	31	80.0	84.3	56.0	55.3		
854	4.2	57.1	57.1	271.0	268.7	3	22	86.7	89.6	59.8	59.7	2.9	324
		58.4	58.5	269.7	266.6	3	32	84.5	87.6	58.6	58.2		
		59.6	60.0	267.6	264.7	3	42	82.2	85.5	57.3	56.8		
879	4.5	40.4	40.2	273.7	269.4	3	34	86.0	89.9	52.1	51.9	4.9	1211
		40.6	40.7	271.5	267.4	3	44	83.7	87.8	50.9	50.5		
		51.9	52.1	269.3	265.4	3	54	81.4	85.7	49.6	49.1		
867	1.3	56.2	56.6	268.0	264.7	3	49	92.4	95.4	59.0	59.3	4.2	332
		57.5	58.0	265.8	262.7	3	59	90.2	93.4	57.7	57.9		
		58.7	59.4	263.4	260.8	4	9	88.1	91.4	56.5	56.5		
896	4.6	53.8	53.5	275.4	271.8	4	11	87.6	91.0	56.2	56.2	4.2	332
		55.1	55.9	273.2	269.7	4	21	85.4	88.9	55.0	54.8		
		56.3	56.4	271.0	267.7	4	31	83.1	86.8	53.8	53.3		
6	5.2	46.8	46.8	272.5	267.8	4	23	87.4	91.7	49.4	49.4	3.7	327
		48.0	48.2	270.3	265.8	4	33	85.2	89.7	48.2	48.0		
		49.3	49.6	268.2	263.9	4	43	82.9	87.6	46.9	46.5		
12	2.4	41.1	41.7	266.2	260.5	4	36	95.2	100.3	43.6	44.3	4.4	1234
		42.3	43.1	264.1	258.8	4	46	93.1	98.5	42.3	42.9		
		43.6	44.5	262.1	257.0	4	56	91.9	96.7	41.1	41.4		
1031	5.2	38.8	38.8	272.1	265.9	4	54	91.4	97.1	41.3	41.7	4.4	1234
		40.0	40.3	269.9	264.0	5	4	89.3	95.2	40.1	40.3		
		41.3	41.7	267.8	262.1	5	14	87.1	93.3	38.9	38.9		
35	4.4	52.2	51.9	275.6	271.7	5	16	85.1	88.7	54.8	54.5	5.0	366
		53.5	53.3	273.4	269.7	5	26	82.9	86.6	53.6	53.1		
		54.7	54.8	271.2	267.7	5	36	80.6	84.4	52.3	51.7		
1026	5.5	52.4	52.6	270.4	266.6	5	36	92.4	95.9	55.0	55.3	4.4	392
		53.7	54.0	268.3	264.6	5	46	90.3	93.9	53.7	53.9		
		54.9	55.4	266.2	262.7	5	56	88.1	92.0	52.5	52.5		
1053	5.0	39.8	40.3	267.9	262.0	5	55	95.1	100.5	42.4	43.1	4.1	382
		41.1	41.7	265.8	260.2	6	5	93.0	98.7	41.2	41.7		
		42.3	43.1	263.8	258.4	6	15	90.9	96.9	39.9	40.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-60	LAT-55	LAT-60	LAT-55	HRS	MIN	LAT-60	LAT-55	Z. D. LAT-60	LAT-55		
1055	4.7	53.3	53.1	273.9	270.1	6	30	86.4	89.7	56.1	55.9	5.1	419
		54.5	54.5	271.7	268.1	6	40	84.1	87.7	54.8	54.5		
		55.8	56.0	269.5	266.1	6	50	81.8	85.5	53.6	53.0		
83	5.4	56.8	56.2	279.4	276.1	6	40	82.6	85.6	59.4	58.8	4.5	421
		58.1	57.6	277.1	274.0	6	50	80.3	83.5	58.1	57.4		
		59.3	59.0	274.9	271.9	7	0	78.0	81.3	56.9	56.0		
101	4.5	49.2	49.0	274.4	270.1	7	2	88.6	92.6	51.8	51.9	3.7	434
		50.4	50.4	272.2	268.0	7	12	86.4	90.6	50.6	50.4		
		51.7	51.8	270.0	266.1	7	22	84.2	88.5	49.3	49.0		
133	4.9	46.1	45.7	281.3	276.5	7	27	83.0	87.4	48.7	48.3	3.7	434
		47.3	46.7	279.0	274.3	7	37	80.7	85.3	47.5	46.8		
		48.5	48.2	276.6	272.2	7	47	78.3	83.1	46.2	45.4		
143	4.2	43.2	42.9	276.6	271.3	7	39	84.3	89.2	45.8	45.5	4.9	439
		44.5	44.3	274.3	269.2	7	49	82.0	87.1	44.5	44.0		
		45.7	45.8	272.1	267.2	7	59	79.6	84.9	43.3	42.6		
140	4.3	56.8	56.0	280.8	277.5	8	0	83.6	86.6	59.2	58.8	2.8	471
		58.0	57.4	278.5	275.4	8	10	81.3	84.5	58.0	57.3		
		59.3	58.9	276.3	273.3	8	20	79.0	82.3	56.7	55.9		
143	4.2	47.9	48.2	268.4	263.9	8	16	91.1	95.1	50.5	50.8	5.0	1331
		49.1	49.6	266.3	262.0	8	26	88.9	93.2	49.3	49.4		
		50.4	51.0	264.2	260.1	8	36	86.7	91.2	48.0	47.9		
155	3.8	41.8	42.4	265.2	259.7	8	29	94.1	99.2	44.4	45.0	4.3	482
		43.0	43.8	263.2	258.0	8	39	92.0	97.3	43.2	43.6		
		44.3	45.2	261.2	256.3	8	49	89.9	95.4	41.9	42.2		
1120	4.5	40.3	40.6	268.7	262.9	8	41	91.6	96.9	42.9	43.3	4.3	482
		41.5	42.1	266.6	261.1	8	51	89.5	95.1	41.7	41.9		
		42.8	43.5	264.6	259.3	9	1	87.3	93.1	40.4	40.4		
1121	4.1	50.4	50.7	268.8	264.7	8	57	93.3	97.0	53.0	53.5	4.4	506
		51.7	52.1	266.7	262.8	9	7	91.2	95.1	51.8	52.1		
		52.9	53.5	264.6	260.9	9	17	89.0	93.1	50.5	50.6		
1130	5.1	48.1	48.6	266.1	261.6	9	16	96.3	100.3	50.6	51.3	2.3	520
		49.3	50.0	264.0	259.8	9	26	94.2	98.4	49.4	49.9		
		50.5	51.0	262.0	258.0	9	36	92.1	96.5	48.1	48.5		
215	2.8	45.7	45.3	277.1	272.2	9	35	85.0	89.5	48.3	48.0	4.4	506
		46.9	46.7	274.9	270.2	9	45	82.7	87.4	47.0	46.6		
		48.2	48.2	272.6	268.1	9	55	80.4	85.3	45.8	45.2		
223	3.2	44.2	43.9	276.0	270.8	9	45	87.7	87.4	47.0	46.6	4.4	506
		45.4	45.3	273.7	268.8	9	55	85.4	85.3	45.8	45.2		
		46.7	46.9	271.5	266.8	10	5	78.0	83.1	44.6	43.8		
238	4.5	42.9	42.3	280.0	274.6	9	56	80.1	85.0	45.7	45.0	4.4	506
		44.1	43.7	277.6	272.4	10	6	77.7	82.8	44.5	43.6		
		45.4	45.1	275.3	270.4	10	16	75.3	80.6	43.2	42.2		
223	3.2	47.1	47.2	270.9	266.2	10	8	92.2	96.4	49.7	50.1	4.1	544
		48.3	48.6	268.7	264.3	10	18	90.0	94.5	48.4	48.6		
		49.6	50.0	266.6	262.4	10	28	87.8	92.5	47.2	47.2		
238	4.5	45.7	45.5	274.6	269.7	10	19	89.8	94.3	48.3	48.5	4.1	544
		47.0	47.0	272.4	267.7	10	29	87.6	92.3	47.1	47.1		
		48.2	48.4	270.2	265.8	10	39	85.4	90.3	45.8	45.6		
238	4.5	47.0	47.0	272.4	267.7	10	29	89.2	93.5	49.6	49.7	5.3	1389
		48.2	48.4	270.2	265.8	10	39	87.0	91.5	48.4	48.3		
		49.5	49.8	268.1	263.8	10	49	84.8	89.4	47.1	46.9		
252	3.2	39.6	40.1	267.0	261.0	10	40	94.9	100.3	42.3	42.9	3.4	553
		40.8	41.5	265.0	259.3	10	50	92.8	98.5	41.0	41.5		
		42.1	42.9	262.9	257.5	11	0	90.7	96.7	39.8	40.1		
240	3.1	53.7	53.8	271.6	268.0	10	54	88.6	91.9	56.3	56.7	3.8	579
		55.0	55.2	269.5	266.0	11	4	86.4	89.9	55.0	54.9		
		56.2	56.6	267.3	264.0	11	14	84.2	87.8	53.8	53.4		
268	1.6	51.7	51.2	277.7	273.7	11	9	85.3	88.9	54.4	54.2	3.8	579
		53.0	52.7	275.4	271.6	11	19	83.0	86.8	53.2	52.7		
		54.2	54.1	273.1	269.5	11	29	80.7	84.6	51.9	51.3		
1178	5.3	47.2	47.9	265.9	261.4	11	19	96.0	100.1	49.8	50.5	4.3	599
		48.5	49.2	263.9	259.5	11	29	93.9	98.3	48.6	49.1		
		49.7	50.6	261.8	257.7	11	39	91.8	96.4	47.4	47.7		
268	1.6	55.5	55.5	270.9	267.5	11	39	91.7	94.8	57.9	58.2	2.9	620
		56.7	57.0	268.8	265.5	11	49	89.5	92.8	56.7	56.8		
		58.0	58.4	266.6	263.6	11	59	87.3	90.8	55.4	55.3		
278	2.7	48.0	48.5	266.4	261.9	11	50	93.0	97.1	50.7	51.2	4.3	1431
		49.3	49.9	264.3	260.1	12	0	90.9	95.2	49.5	49.7		
		50.5	51.4	262.3	258.3	12	10	88.7	93.2	48.2	48.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-60	LAT-55	LAT-60	LAT-55	HRS	MIN	LAT-60	LAT-55	LAT-60	LAT-55		
278	2.7	49.4	50.1	264.1	259.9	12	1	98.4	98.2	52.0	52.6	2.4	628
		50.6	51.5	262.1	258.1	12	11	92.2	96.3	50.8	51.1		
		51.9	52.9	260.1	256.3	12	21	90.1	94.4	49.5	49.7		
1210	4.9	51.1	50.8	275.8	271.7	12	12	84.4	88.1	53.8	53.5	2.9	620
		52.4	52.2	273.5	269.7	12	22	82.1	86.0	52.6	52.0		
		53.6	53.7	271.3	267.6	12	32	79.8	83.8	51.3	50.6		
106	2.3	44.0	44.5	266.9	261.7	12	22	93.4	98.0	46.6	47.1	3.1	1439
		45.2	45.9	264.8	259.9	12	32	91.3	96.1	45.4	45.7		
		46.5	47.3	262.7	258.1	12	42	89.1	94.2	44.2	44.3		
308	2.9	57.9	57.5	276.7	273.6	12	36	87.6	90.5	60.4	60.4	4.3	1457
		59.1	58.9	274.5	271.5	12	46	85.4	88.4	59.2	58.9		
		60.4	60.3	272.3	269.4	12	56	83.2	86.3	58.0	57.5		
1219	4.9	55.8	56.1	267.7	264.3	12	49	91.8	94.8	58.4	58.7	4.7	1464
		57.0	57.5	265.5	262.3	12	59	89.6	92.8	57.2	57.3		
		58.3	59.0	263.4	260.4	13	9	87.4	90.8	55.9	55.8		
1210	4.9	57.1	57.7	265.3	262.1	13	0	97.8	100.7	59.6	60.4	2.8	687
		59.4	59.1	263.2	260.2	13	10	95.8	98.8	58.3	58.9		
		59.6	60.5	261.2	258.3	13	20	93.7	96.8	57.1	57.5		
1219	4.9	53.2	53.7	266.3	262.6	13	10	93.0	96.3	55.9	56.3	3.1	679
		54.5	55.1	264.2	260.7	13	20	90.8	94.3	54.7	54.9		
		55.7	56.5	262.1	258.8	13	30	88.7	92.4	53.4	53.5		
327	3.7	51.7	52.0	268.6	264.6	13	21	90.6	94.1	54.6	54.8	3.1	679
		53.0	53.4	266.4	262.7	13	31	88.4	92.2	53.3	53.3		
		54.2	54.9	264.3	260.8	13	41	86.2	90.1	52.1	51.9		
332	4.2	57.1	57.1	270.9	267.7	13	35	89.0	91.9	59.7	59.7	2.9	692
		58.3	58.6	268.8	265.7	13	45	86.8	89.9	58.5	58.3		
		59.6	60.0	266.6	263.7	13	55	84.6	87.8	57.2	56.9		
1243	4.9	55.9	55.5	276.8	273.4	13	45	86.8	89.9	58.5	58.3	2.9	692
		57.2	56.9	274.5	271.3	13	55	84.6	87.8	57.2	56.9		
		58.4	58.4	272.3	269.2	14	5	82.3	85.7	56.0	55.4		
366	5.0	53.7	53.3	276.8	273.1	14	2	83.0	86.4	56.3	55.9	2.9	692
		55.0	54.7	274.6	271.1	14	12	80.7	84.2	55.1	54.4		
		56.2	56.2	272.4	269.0	14	22	78.4	82.1	53.9	53.0		
392	4.4	47.4	46.7	281.1	276.5	14	16	81.3	85.5	50.1	49.5	2.8	687
		48.7	49.1	278.9	274.4	14	26	78.9	83.3	48.9	48.1		
		49.9	49.5	276.5	272.2	14	36	76.5	81.1	47.6	46.7		
414	4.7	40.3	39.6	288.4	274.5	14	27	83.6	89.1	42.7	42.4	3.2	683
		41.5	41.1	278.0	272.3	14	37	81.3	87.0	41.5	41.0		
		42.8	42.5	275.7	270.3	14	47	78.9	84.8	40.3	39.5		
414	4.7	41.5	41.1	278.0	272.3	14	37	80.7	85.5	44.2	43.6	2.0	689
		42.8	42.5	275.7	271.3	14	47	78.3	83.7	42.9	42.2		
		44.0	43.9	273.4	268.2	14	57	75.8	81.4	41.7	40.7		
415	4.6	40.7	41.2	267.5	261.8	15	5	93.5	98.7	43.3	43.8	4.1	728
		41.9	42.6	265.4	260.0	15	15	91.4	96.9	42.0	42.4		
		43.2	44.0	263.4	259.2	15	25	89.2	95.0	40.8	40.9		
414	4.7	47.1	47.5	268.0	263.4	15	22	92.8	97.0	49.7	50.2	4.4	751
		48.4	48.9	265.9	261.5	15	32	90.7	95.1	48.5	48.7		
		49.6	50.3	263.8	259.6	15	42	88.5	93.1	47.2	47.3		
419	5.1	57.2	57.2	271.6	268.4	15	48	92.4	95.3	59.8	60.1	4.2	1546
		58.5	58.7	269.4	266.4	15	58	90.2	93.3	58.5	58.7		
		59.7	60.1	267.3	264.4	16	8	88.0	91.3	57.3	57.2		
439	4.9	48.6	48.7	270.7	266.3	16	2	91.5	95.5	51.3	51.6	5.5	1540
		49.8	50.1	268.5	264.3	16	12	89.3	93.5	50.0	50.1		
		51.1	51.6	266.4	262.4	16	22	87.1	91.5	48.8	48.7		
439	4.9	50.3	50.7	267.7	263.6	16	16	92.1	95.8	53.1	53.4	4.7	1550
		51.6	52.1	265.6	261.7	16	26	90.0	93.9	51.8	52.0		
		52.8	53.6	263.5	259.8	16	36	87.8	91.9	50.6	50.6		
1331	5.0	44.5	43.9	279.8	274.7	16	35	84.2	88.9	47.2	46.9	5.5	1540
		45.8	45.3	277.5	272.6	16	45	81.9	86.8	45.9	45.4		
		47.0	46.8	275.2	270.5	16	55	79.5	84.6	44.7	44.0		
471	2.8	57.4	56.7	279.8	276.5	16	52	83.1	86.0	59.9	59.4	3.9	806
		58.6	58.1	277.5	274.4	17	2	80.9	83.9	58.7	58.0		
		59.9	59.5	275.2	272.3	17	12	78.6	81.8	57.4	56.6		
1331	5.7	48.8	48.8	272.0	267.6	17	9	90.7	94.7	51.3	51.5	4.4	814
		50.0	50.2	269.9	265.7	17	19	88.5	92.7	50.0	50.1		
		51.3	51.6	267.7	263.7	17	29	86.3	90.7	48.8	48.7		
482	4.3	45.0	45.6	265.0	260.1	17	20	93.8	98.3	47.6	48.1	3.2	822
		46.2	47.0	262.9	258.3	17	30	91.7	96.4	46.4	46.7		
		47.4	48.4	260.9	256.5	17	40	89.5	94.5	45.1	45.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-60	LAT-55	LAT-60	LAT-55	HRS	MIN	LAT-60	LAT-55	Z. D. LAT-60	LAT-55		
1331	5.0	51.9	52.3	266.7	262.8	17	34	94.8	98.3	54.5	55.1	4.4	1592
		53.1	53.8	264.6	260.9	17	44	92.7	96.4	53.3	53.7		
		54.4	55.2	262.5	259.0	17	54	90.5	94.4	52.0	52.2		
1373	4.2	40.5	40.0	278.1	272.2	17	57	85.7	91.1	43.0	42.8	3.2	822
		41.7	41.5	275.8	270.2	18	7	83.4	89.1	41.7	41.4		
		43.0	42.9	273.5	268.1	18	17	81.1	87.0	40.5	40.0		
506	4.4	51.8	52.0	268.9	264.9	18	22	94.8	98.3	54.3	54.9	4.5	879
		53.0	53.5	266.7	263.0	18	32	92.7	96.4	53.0	53.4		
		54.3	54.9	264.6	261.1	18	42	90.6	94.5	51.8	52.0		
544	4.1	44.3	43.9	277.3	272.2	18	34	81.6	86.3	47.0	46.5	4.4	1592
		45.6	45.4	275.0	270.1	18	44	79.2	84.1	45.8	45.1		
		46.9	46.8	272.8	268.1	18	54	76.8	81.9	44.6	43.7		
553	3.4	39.2	39.4	270.3	264.2	18	51	88.1	93.7	42.0	42.1	5.4	1599
		40.4	40.9	268.2	262.4	19	1	85.9	91.7	40.7	40.6		
		41.7	42.3	266.1	260.6	19	11	83.6	89.7	39.5	39.2		
532	5.0	54.2	54.2	272.2	268.6	19	1	89.8	93.1	56.8	56.9	4.6	896
		55.5	55.6	270.0	266.6	19	11	87.6	91.1	55.5	55.5		
		56.7	57.0	267.9	264.6	19	21	85.4	89.0	54.3	54.0		
1389	5.3	48.6	48.6	272.6	268.1	19	12	88.4	92.5	51.1	51.2	5.3	1618
		49.9	50.0	270.4	266.2	19	22	86.2	90.4	49.9	49.8		
		51.1	51.4	268.2	264.2	19	32	84.0	88.4	48.7	48.3		
1402	3.4	41.5	41.8	269.7	264.1	19	23	89.1	94.2	44.3	44.4	4.5	886
		42.7	43.2	267.5	262.2	19	33	86.9	92.3	43.0	43.0		
		44.0	44.6	265.5	260.4	19	43	84.6	90.2	41.8	41.5		
556	3.4	58.1	57.8	274.3	271.2	19	40	87.5	90.3	60.7	60.6	5.2	14
		59.3	59.3	272.1	269.2	19	50	85.3	88.3	59.4	59.2		
		60.6	60.7	270.0	267.1	20	0	83.1	86.2	58.2	57.7		
1389	5.3	53.8	54.6	263.6	260.0	19	54	96.5	99.8	56.5	57.3	5.5	1026
		55.1	56.0	261.5	256.2	20	4	94.5	97.9	55.3	55.8		
		56.3	57.4	259.5	256.3	20	14	92.3	95.9	54.1	54.4		
592	3.0	54.3	53.6	279.4	275.8	20	10	80.8	84.1	57.0	56.3	5.2	14
		55.5	55.1	277.1	273.6	20	20	78.5	81.9	55.7	54.9		
		56.8	56.5	274.8	271.6	20	30	76.1	79.7	54.5	53.5		
1430	3.1	40.3	39.9	278.0	272.0	20	28	80.7	86.1	43.1	42.5	5.2	6
		41.5	41.3	275.6	270.0	20	38	78.3	83.9	41.9	41.1		
		42.8	42.7	273.3	267.9	20	48	75.8	81.6	40.7	39.7		
586	4.1	52.7	53.3	265.9	262.1	20	39	96.0	99.4	55.3	55.9	5.3	1048
		54.0	54.7	263.8	260.2	20	49	93.9	97.5	54.0	54.5		
		55.2	56.1	261.7	258.4	20	59	91.8	95.6	52.8	53.1		
616	1.2	56.4	56.2	274.7	271.4	21	0	87.3	90.3	59.1	59.0	5.4	61
		57.7	57.6	272.5	269.4	21	10	85.1	88.2	57.8	57.5		
		58.9	59.0	270.3	267.3	21	20	82.8	86.2	56.6	56.1		
628	2.4	48.7	48.8	271.4	267.0	21	10	89.4	93.4	51.4	51.5	5.3	1048
		49.9	50.2	269.2	265.9	21	20	87.2	91.4	50.2	50.1		
		51.2	51.6	267.1	263.1	21	30	85.0	89.4	48.9	48.7		
628	2.4	52.9	53.6	264.1	260.4	21	44	96.5	99.8	55.5	56.2	4.5	101
		54.2	55.0	262.1	258.6	21	54	94.4	97.9	54.2	54.8		
		55.4	56.4	260.0	256.7	22	4	92.3	96.0	53.0	53.3		
666	3.1	43.7	44.2	267.0	261.8	22	4	96.6	101.3	46.1	46.9	4.1	1075
		44.9	45.6	264.9	260.0	22	14	94.5	99.5	44.8	45.5		
		46.2	47.0	262.9	258.2	22	24	92.5	97.7	43.6	44.0		
692	2.9	54.8	54.1	279.8	276.3	22	39	81.4	84.6	57.5	56.9	4.2	1085
		56.0	55.5	277.5	274.2	22	49	79.1	82.4	56.3	55.5		
		57.3	57.0	275.3	272.1	22	59	76.7	80.2	55.1	54.1		
683	3.2	48.8	49.3	265.8	261.4	22	54	97.3	101.2	51.3	52.1	4.2	143
		50.0	50.7	263.7	259.6	23	4	95.3	99.4	50.0	50.7		
		51.3	52.1	261.7	257.8	23	14	93.2	97.5	48.8	49.3		
718	4.1	45.0	45.3	269.6	264.6	23	23	91.3	95.8	47.7	48.0	4.2	143
		46.3	46.7	267.5	262.7	23	33	89.1	93.9	46.4	46.5		
		47.5	48.1	265.4	260.9	23	43	86.9	91.9	45.2	45.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-55	LAT-50	LAT-55	LAT-50	HRS	MIN	LAT-55	LAT-50	Z. D. LAT-55	LAT-50		
751	4.4	45.8	46.0	269.1	264.2	0	4	92.5	96.8	48.6	49.0	4.1	1121
		47.2	47.6	267.1	262.5	0	14	90.5	95.1	47.2	47.4		
		48.6	49.2	265.1	260.8	0	24	88.4	93.3	45.8	45.8		
1540	5.5	45.5	45.5	273.0	268.1	0	34	85.5	90.0	48.5	48.3	3.9	170
		47.0	47.1	271.0	266.3	0	44	83.3	88.0	47.1	46.7		
		48.4	48.7	268.9	264.5	0	54	81.1	86.0	45.7	45.1		
779	4.3	53.4	52.9	277.5	273.8	0	52	81.5	84.8	56.5	55.9	3.3	186
		54.9	54.5	275.3	271.8	1	2	79.3	82.8	55.1	54.3		
		56.3	56.2	273.2	269.9	1	12	77.0	80.7	53.7	52.7		
779	4.3	56.1	56.0	273.4	270.0	1	11	85.8	88.8	59.3	59.1	3.8	217
		57.6	57.6	271.3	268.1	1	21	83.7	86.9	57.9	57.5		
		59.0	59.2	269.3	266.3	1	31	81.5	84.9	56.5	55.9		
791	4.6	54.8	54.4	276.0	272.4	1	21	83.7	86.9	57.9	57.5	3.8	217
		56.2	56.0	273.8	270.5	1	31	81.5	84.9	56.5	55.9		
		57.6	57.6	271.7	268.6	1	41	79.3	82.8	55.1	54.3		
806	3.9	55.6	54.9	279.8	276.3	1	32	81.7	84.7	58.6	58.0	3.9	222
		57.0	56.5	277.6	274.3	1	42	79.5	82.7	57.1	56.4		
		58.4	58.1	275.4	272.4	1	52	77.2	80.6	55.7	54.8		
822	3.2	42.4	42.6	269.6	264.1	1	45	91.3	96.2	45.4	45.7	3.2	223
		43.8	44.2	267.6	262.4	1	55	89.3	94.4	44.0	44.1		
		45.2	45.8	265.6	260.7	2	5	87.2	92.6	42.5	42.5		
814	4.4	50.0	50.4	267.4	263.2	2	8	95.4	99.1	52.9	53.5	3.8	1180
		51.5	52.0	265.4	261.5	2	18	93.4	97.4	51.5	51.9		
		52.9	53.6	263.5	259.8	2	28	91.4	95.6	50.0	50.3		
1592	4.4	45.6	45.3	275.2	270.3	2	20	84.8	89.2	48.8	48.5	3.1	240
		47.0	46.9	273.0	268.4	2	30	82.6	87.2	47.3	46.9		
		48.4	48.5	271.0	266.5	2	40	80.3	85.2	45.9	45.3		
838	5.4	53.4	53.4	272.5	268.8	2	34	88.9	92.2	56.4	56.5	2.0	273
		54.9	55.0	270.5	267.0	2	44	86.8	90.4	55.0	54.9		
		56.3	56.6	268.4	265.1	2	54	84.7	88.4	53.6	53.3		
867	1.3	48.0	47.6	277.1	272.5	2	49	85.8	89.9	50.9	50.7	1.6	268
		49.4	49.2	274.9	270.6	2	59	83.7	88.0	49.5	49.1		
		50.8	50.8	272.8	268.7	3	9	81.4	86.0	48.1	47.5		
867	1.3	49.7	49.5	274.5	270.2	3	1	88.9	92.7	52.6	52.7	2.4	283
		51.1	51.1	272.3	268.3	3	11	86.8	90.9	51.2	51.1		
		52.6	52.7	270.3	266.4	3	21	84.7	88.9	49.7	49.5		
886	4.5	40.9	41.0	270.7	265.0	3	16	91.6	96.8	43.8	44.2	2.7	278
		42.3	42.6	268.7	263.2	3	26	89.6	95.1	42.4	42.6		
		43.7	44.2	266.7	261.6	3	36	87.5	93.3	40.9	41.0		
1618	5.3	45.6	45.3	275.7	270.8	3	28	83.2	87.6	48.7	48.3	2.4	283
		47.0	46.9	273.5	268.9	3	38	80.9	85.6	47.3	46.7		
		48.4	48.5	271.4	267.0	3	48	78.6	83.5	45.9	45.1		
867	1.3	56.4	57.0	268.8	261.6	3	48	95.6	98.4	59.5	60.1	4.2	332
		57.9	58.6	262.9	259.8	3	58	93.6	96.7	58.0	58.5		
		59.3	60.2	261.0	258.1	4	8	91.6	94.8	56.6	56.9		
896	4.6	53.4	53.3	272.0	268.2	4	10	91.2	94.5	56.3	56.6	4.2	332
		54.8	54.9	269.9	266.4	4	20	89.1	92.6	54.9	55.0		
		56.2	56.5	267.9	264.6	4	30	87.0	90.7	53.5	53.4		
6	5.2	46.6	47.0	268.0	263.3	4	22	91.9	96.2	49.5	49.9	3.7	327
		48.1	48.6	266.0	261.6	4	32	89.9	94.4	48.1	48.3		
		49.5	50.2	264.1	259.9	4	42	87.8	92.5	46.7	46.7		
896	4.6	57.2	57.7	266.5	263.3	4	37	96.5	99.3	60.1	60.8	5.0	366
		58.6	59.3	264.5	261.5	4	47	94.5	97.5	58.7	59.2		
		60.1	60.8	262.5	259.7	4	57	92.5	95.7	57.2	57.6		
35	4.4	47.9	47.4	277.8	273.2	4	48	83.2	87.3	50.9	50.5	4.2	332
		49.3	49.0	275.6	271.2	4	58	81.0	85.3	49.5	48.9		
		50.7	50.6	273.4	269.3	5	8	78.7	83.2	48.1	47.3		
14	5.2	57.6	57.4	274.0	270.8	4	58	85.2	88.0	60.7	60.4	5.2	1247
		59.1	59.0	271.9	268.9	5	8	83.0	86.0	59.3	58.8		
		60.5	60.6	269.8	267.0	5	18	80.9	84.0	57.8	57.2		
35	4.4	51.7	51.7	271.9	268.0	5	15	88.9	92.4	54.7	54.7	5.0	366
		53.2	53.3	269.9	266.2	5	25	86.8	90.5	53.2	53.1		
		54.6	55.0	267.9	264.3	5	35	84.6	88.6	51.8	51.5		
1026	5.5	52.4	52.9	266.8	263.0	5	35	96.1	99.5	55.5	56.1	4.4	392
		53.9	54.5	264.8	261.2	5	45	94.1	97.7	54.0	54.6		
		55.3	56.0	262.9	259.5	5	55	92.2	95.9	52.6	53.0		
1055	4.7	47.1	46.5	279.2	274.5	5	48	81.8	86.0	50.0	45.4	5.0	366
		48.5	48.1	276.9	272.5	5	58	79.6	84.0	48.5	47.8		
		49.9	49.7	274.8	270.5	6	8	77.3	81.9	47.1	46.2		

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT-55	LAT-50	LAT-55	LAT-50	HRS	MIN	LAT-55	LAT-50	LAT-55	LAT-50		
61	5.4	55.2	54.9	275.2	271.7	6	3	86.1	89.3	58.0	57.8	5.3	399
		56.6	56.5	273.1	269.8	6	13	88.0	87.3	56.6	56.2		
		58.0	58.1	271.0	267.9	6	23	81.9	85.4	55.2	54.6		
83	5.4	53.0	52.2	281.0	277.2	6	18	82.9	86.3	55.9	55.4	5.3	399
		54.4	53.8	278.8	275.2	6	28	80.8	84.3	54.5	53.8		
		55.9	55.4	276.6	273.2	6	38	78.5	82.3	53.1	52.2		
1055	4.7	53.0	53.1	270.3	266.6	6	29	89.9	93.3	56.1	56.2	5.1	419
		54.4	54.7	268.3	264.7	6	39	87.9	91.4	54.6	54.6		
		55.8	56.3	266.3	263.0	6	49	85.8	89.5	53.2	53.0		
83	5.4	56.0	55.6	276.4	273.0	6	39	85.8	88.8	59.0	58.8	4.5	421
		57.4	57.2	274.2	271.0	6	49	83.7	86.9	57.6	57.1		
		58.9	58.8	272.1	269.1	6	59	81.5	84.9	56.1	55.5		
1055	4.7	56.2	56.8	265.7	262.4	6	52	83.6	86.6	59.4	58.8	5.5	1305
		57.7	58.4	263.8	260.7	7	2	81.6	84.7	58.0	58.2		
		59.1	59.9	261.8	258.9	7	12	89.6	92.9	56.5	56.6		
101	4.5	49.0	49.2	270.1	265.7	7	2	92.6	96.5	51.9	52.3	3.7	434
		50.4	50.8	268.0	263.9	7	12	90.6	94.7	50.4	50.7		
		51.8	52.4	266.1	262.2	7	22	88.5	92.8	49.0	49.0		
133	4.9	45.3	45.0	276.5	271.5	7	27	87.4	91.9	48.3	48.2	3.7	434
		46.7	46.6	274.3	269.6	7	37	85.3	90.0	46.8	46.6		
		48.2	48.2	272.2	267.7	7	47	83.1	88.1	45.4	45.0		
143	4.2	42.8	42.9	271.5	266.1	7	38	89.4	94.2	45.6	45.8	4.9	439
		44.2	44.5	269.4	264.3	7	48	87.3	92.4	44.2	44.2		
		45.6	46.1	267.4	262.6	7	58	85.1	90.6	42.8	42.6		
140	4.3	54.6	53.9	279.7	276.2	7	50	83.0	86.2	57.4	56.9	3.2	453
		56.0	55.5	277.5	274.1	8	0	80.8	84.2	55.9	55.3		
		57.4	57.1	275.4	272.2	8	10	78.6	82.1	54.5	53.7		
140	4.3	56.0	55.5	277.5	274.1	8	0	86.6	89.6	58.8	58.6	2.8	471
		57.4	57.1	275.4	272.2	8	10	84.5	87.7	57.3	57.0		
		58.9	58.7	273.3	270.2	8	20	82.3	85.7	55.9	55.0		
143	4.2	47.9	48.6	264.3	259.9	8	14	95.5	99.5	51.1	51.7	5.0	1331
		49.3	50.2	262.4	258.2	8	24	93.6	97.8	49.7	50.2		
		50.8	51.8	260.5	256.6	8	34	91.6	96.0	48.2	48.6		
1121	4.1	46.4	46.5	270.7	265.9	8	27	93.0	97.3	49.2	49.7	5.0	1331
		47.8	48.1	268.6	264.1	8	37	91.0	95.5	47.8	48.1		
		49.3	49.7	266.6	262.4	8	47	88.9	93.7	46.4	46.5		
1121	4.1	49.1	49.6	266.8	262.6	8	46	92.2	96.1	52.1	52.4	5.4	1342
		50.5	51.2	264.9	260.8	8	56	90.2	94.3	50.6	50.8		
		52.0	52.8	262.9	259.1	9	6	88.1	92.5	49.2	49.2		
1121	4.1	50.5	51.2	264.9	260.8	8	56	97.2	100.8	53.6	54.4	4.4	506
		52.0	52.8	262.9	259.1	9	6	95.3	99.1	52.2	52.8		
		53.4	54.3	261.1	257.5	9	16	93.3	97.4	50.8	51.2		
223	3.2	39.5	39.1	277.6	271.4	9	14	83.1	88.6	42.5	42.1	5.0	1331
		40.9	40.7	275.3	269.5	9	24	80.9	86.6	41.1	40.5		
		42.3	42.3	273.1	267.6	9	34	78.5	84.6	39.7	38.9		
170	3.9	55.5	56.1	264.6	261.2	9	24	97.1	100.2	58.3	59.1	5.0	532
		56.9	57.7	262.6	259.5	9	34	95.2	98.4	56.9	57.5		
		58.3	59.2	260.7	257.7	9	44	93.2	96.6	55.5	55.9		
215	2.8	45.1	45.1	272.5	267.5	9	34	89.7	94.1	48.2	48.4	4.4	506
		46.6	46.7	270.4	265.6	9	44	87.6	92.3	46.8	46.7		
		48.0	48.3	268.3	263.9	9	54	85.5	90.4	45.3	45.1		
223	3.2	43.7	43.9	271.0	265.9	9	44	87.6	92.3	46.8	46.7	4.4	506
		45.2	45.5	269.0	264.1	9	54	85.5	90.4	45.3	45.1		
		46.6	47.1	267.0	262.3	10	4	83.3	88.5	43.9	43.5		
238	4.5	42.1	41.9	274.8	269.3	9	55	85.3	90.2	45.2	45.0	4.4	506
		43.5	43.5	272.7	267.4	10	5	83.1	88.3	43.8	43.8		
		45.0	45.1	270.6	265.6	10	15	80.8	86.3	42.3	41.8		
215	2.8	49.9	50.4	265.8	261.6	10	7	97.7	101.4	52.9	53.7	5.3	1389
		51.3	52.0	263.8	259.9	10	17	95.8	99.7	51.4	52.1		
		52.7	53.6	261.9	258.2	10	27	93.9	98.0	50.0	50.5		
223	3.2	48.5	49.1	264.5	260.1	10	17	95.8	99.7	51.4	52.1	5.3	1389
		49.9	50.7	262.5	258.5	10	27	93.9	98.0	50.0	50.5		
		51.3	52.3	260.7	256.8	10	37	91.9	96.2	48.6	48.9		
238	4.5	46.8	47.2	267.9	263.3	10	28	93.7	97.8	49.9	50.4	5.3	1389
		48.3	48.8	266.0	261.6	10	38	91.7	96.1	48.4	48.8		
		49.7	50.4	264.0	259.9	11	48	89.6	94.3	47.0	47.2		
1178	5.3	42.3	42.7	268.7	263.2	10	41	89.9	94.8	45.3	45.5	4.1	544
		43.8	44.3	266.7	261.5	10	51	87.8	93.0	43.9	43.9		
		45.2	45.9	264.8	259.9	11	1	85.6	91.1	42.5	42.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-55 LAT-50		LAT-55 LAT-50		HRS MIN		LAT-55 LAT-50		Z. D. LAT-55 LAT-50			
273	2.0	50.3	49.6	280.4	276.2	10	58	81.9	85.7	53.2	52.7	3.4	556
		51.7	51.2	278.1	274.2	11	8	79.7	83.6	51.8	51.1		
		53.1	52.8	276.0	272.2	11	18	77.4	81.6	50.4	49.5		
268	1.6	51.2	51.1	273.7	269.7	11	9	88.9	92.5	54.2	54.2	3.8	575
		52.7	52.7	271.6	267.8	11	19	86.8	90.6	52.7	52.6		
		54.1	54.3	269.5	265.9	11	29	84.6	88.7	51.3	51.0		
268	1.6	53.5	53.7	270.4	266.7	11	25	88.5	91.8	56.5	56.5	3.0	592
		55.0	55.3	268.3	264.8	11	35	86.4	89.9	55.1	54.9		
		56.4	56.9	266.3	263.0	11	45	84.3	88.0	53.7	53.3		
268	1.6	55.5	55.9	267.5	264.1	11	39	92.1	95.2	58.6	58.0	1.2	616
		57.0	57.5	265.5	262.3	11	49	90.1	93.3	57.2	57.4		
		58.4	59.1	263.6	260.6	11	59	88.0	91.4	55.8	55.8		
283	2.4	53.7	53.9	269.6	265.9	11	53	89.3	92.6	56.6	56.7	1.2	616
		55.1	55.5	267.5	264.1	12	3	87.2	90.7	55.2	55.1		
		56.5	57.1	265.6	262.3	12	13	85.1	88.8	53.8	53.5		
313	4.4	44.1	44.4	268.9	263.8	12	18	91.6	96.2	47.2	47.5	4.3	1431
		45.5	46.0	266.9	262.0	12	28	89.6	94.4	45.7	45.9		
		47.0	47.6	264.9	260.3	12	38	87.5	92.6	44.3	44.3		
308	2.9	57.5	57.3	273.6	270.4	12	36	91.5	93.3	60.4	60.5	4.3	1457
		58.9	58.9	271.5	268.5	12	46	89.4	91.4	58.9	58.9		
		60.3	60.5	269.4	266.6	12	56	87.3	89.5	57.5	57.3		
1210	4.9	55.8	56.4	264.7	261.3	12	47	95.2	98.2	59.0	59.6	4.7	1464
		57.3	58.0	262.7	259.6	12	57	93.2	96.4	57.6	58.0		
		58.7	59.6	260.8	257.9	13	7	91.2	94.6	56.1	56.4		
356	4.6	40.8	40.6	275.3	269.4	13	2	86.0	91.2	43.8	43.7	2.4	628
		42.2	42.2	273.1	267.6	13	12	83.8	89.3	42.4	42.1		
		43.7	43.8	271.0	265.8	13	22	81.5	87.3	41.0	40.5		
327	3.7	51.9	52.5	264.8	261.0	13	20	94.3	97.8	54.9	55.4	3.1	679
		53.3	54.1	262.9	259.3	13	30	92.4	96.0	53.5	53.8		
		54.7	55.7	261.0	257.6	13	40	90.3	94.2	52.1	52.2		
332	4.2	57.0	57.3	267.9	264.7	13	34	92.1	95.0	59.9	60.2	2.9	692
		58.4	58.9	265.9	262.9	13	44	90.1	93.2	58.5	58.6		
		59.9	60.5	263.9	261.1	13	54	88.0	91.3	57.0	57.0		
1243	4.9	55.5	55.3	273.4	269.9	13	45	89.9	93.0	58.3	58.4	2.9	692
		56.9	56.9	271.3	268.0	13	55	87.8	91.1	56.9	56.8		
		58.4	58.6	269.2	266.1	14	5	85.7	89.2	55.4	55.2		
366	5.1	53.0	52.9	273.6	269.8	14	0	86.8	90.2	56.2	56.0	2.9	692
		54.4	54.5	271.5	267.9	14	10	84.7	88.2	54.7	54.4		
		55.9	56.1	269.4	266.0	14	20	82.5	86.3	53.3	52.8		
392	4.4	46.7	46.3	276.5	271.8	14	16	85.5	89.8	49.5	49.3	2.8	687
		48.1	47.9	274.4	269.9	14	26	83.3	87.8	48.1	47.7		
		49.5	49.5	272.2	268.0	14	36	81.1	85.8	46.7	46.1		
414	4.7	39.6	39.5	274.5	268.4	14	27	89.1	94.5	42.4	42.6	3.2	683
		41.1	41.1	272.3	266.6	14	37	87.0	92.7	41.0	41.0		
		42.5	42.7	270.3	264.9	14	47	84.8	90.9	39.5	39.3		
399	5.3	54.9	54.3	278.6	275.1	14	41	81.2	84.4	57.9	57.3	3.6	710
		56.3	55.9	276.4	273.1	14	51	79.0	82.3	56.5	55.7		
		57.7	57.5	274.3	271.1	15	1	76.7	80.2	55.1	54.1		
419	5.1	49.1	49.4	280.6	276.2	14	51	82.4	86.3	52.1	51.6	2.1	706
		50.5	50.0	278.3	274.2	15	1	80.2	84.3	50.7	50.0		
		51.9	51.6	276.1	272.2	15	11	77.9	82.2	49.3	48.4		
419	5.1	52.5	52.2	275.3	271.4	15	15	85.1	88.5	55.7	55.4	4.7	736
		53.9	53.8	273.1	269.5	15	25	82.9	86.6	54.2	53.8		
		55.4	55.4	271.0	267.6	15	35	80.7	84.5	52.8	52.2		
421	4.5	56.5	56.0	277.9	274.6	15	25	81.3	84.2	59.7	59.0	5.1	1517
		57.9	57.6	275.7	272.6	15	35	79.1	82.2	58.2	57.4		
		59.4	59.2	273.6	270.7	15	45	76.9	80.1	56.8	55.8		
419	5.1	57.2	57.5	268.4	265.2	15	48	95.3	98.1	60.1	60.7	4.2	1546
		58.7	59.1	266.4	263.4	15	58	93.3	96.3	58.7	59.1		
		60.1	60.7	264.4	261.6	16	8	91.3	94.5	57.2	57.5		
439	4.9	48.7	49.2	266.3	262.0	16	2	95.5	99.4	51.6	52.2	5.5	1540
		50.1	50.8	264.3	260.3	16	12	93.5	97.6	50.1	50.6		
		51.6	52.4	262.4	258.6	16	22	91.5	95.9	48.7	49.0		
439	4.9	50.6	51.3	263.8	259.7	16	15	96.0	99.6	53.6	54.3	4.7	1550
		52.0	52.9	261.9	258.1	16	25	94.1	97.9	52.1	52.7		
		53.4	54.4	260.0	256.4	16	35	92.1	96.1	50.7	51.1		
1331	5.0	43.9	43.7	274.7	269.5	16	35	88.9	93.6	46.9	47.0	5.5	1540
		45.3	45.3	272.6	267.6	16	45	86.8	91.7	45.4	45.4		
		46.9	46.9	270.5	265.8	16	55	84.6	89.8	44.0	43.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-55	LAT-50	LAT-55	LAT-50	HRS	MIN	LAT-55	LAT-50	LAT-55	LAT-50
471	2.8	56.5	56.1	276.8	273.4	16	51	86.3	89.2	59.6	59.4	3.9	806
		58.0	57.7	274.6	271.5	17	1	88.1	87.3	58.1	57.8		
		59.4	59.3	272.5	269.6	17	11	82.0	85.3	56.7	56.2		
1331	5.0	48.6	49.0	267.8	263.5	17	8	94.9	98.8	51.7	52.3	4.4	814
		50.1	50.6	265.9	261.7	17	18	92.9	97.0	50.2	50.7		
		51.5	52.2	263.9	260.0	17	28	90.9	95.3	48.8	49.1		
506	4.4	43.5	43.0	277.4	272.1	17	22	85.7	90.5	46.4	46.3	4.8	801
		44.9	44.6	275.2	270.2	17	32	83.6	88.6	45.0	44.7		
		46.3	46.3	273.0	268.3	17	42	81.3	86.6	43.6	43.0		
495	3.3	57.8	57.5	275.3	272.1	17	43	86.3	89.1	60.6	60.4	5.4	1584
		59.2	59.1	273.2	270.2	17	53	84.2	87.2	59.2	58.8		
		60.6	60.7	271.1	268.3	18	3	82.0	85.2	57.8	57.2		
1373	4.2	40.0	40.1	272.2	266.3	17	57	91.1	96.5	42.8	43.2	3.2	822
		41.5	41.7	270.2	264.5	18	7	89.1	94.7	41.4	41.6		
		42.9	43.3	268.1	262.8	18	17	87.0	92.9	40.0	40.0		
544	4.1	40.2	39.8	277.9	271.9	18	8	82.4	87.8	43.1	42.7	4.4	814
		41.6	41.4	275.6	270.0	18	18	80.1	85.7	41.7	41.1		
		43.1	43.0	273.5	268.1	18	28	77.7	83.7	40.3	39.5		
548	4.1	41.8	41.5	275.4	269.8	18	19	85.1	90.2	44.9	44.7	4.6	832
		43.2	43.2	273.3	267.9	18	29	82.9	88.2	43.5	43.1		
		44.6	44.8	271.1	266.1	18	39	80.6	86.2	42.0	41.5		
544	4.1	43.6	43.6	272.6	267.4	18	32	86.7	91.4	46.8	46.7	4.4	1592
		45.1	45.2	270.5	265.6	18	42	84.5	89.5	45.4	45.1		
		46.5	46.8	268.5	263.8	18	52	82.3	87.5	43.9	43.5		
544	4.1	45.2	45.4	270.3	265.4	18	43	93.2	97.7	48.1	48.5	5.1	1601
		46.6	47.0	268.3	263.6	18	53	91.3	95.9	46.6	47.0		
		48.1	48.6	266.3	261.9	19	3	89.2	94.2	45.2	45.4		
544	4.1	47.1	47.5	267.7	263.1	18	56	91.7	95.9	50.0	50.3	4.5	879
		48.5	49.1	265.7	261.4	19	6	89.7	94.1	48.6	48.7		
		49.9	50.7	263.8	259.7	19	16	87.6	92.2	47.1	47.1		
544	4.1	48.8	49.4	265.3	261.0	19	8	93.3	97.2	51.8	52.2	5.3	1618
		50.2	51.0	263.4	259.3	19	18	91.3	95.4	50.3	50.6		
		51.6	52.5	261.5	257.7	19	28	89.2	93.6	48.9	49.0		
586	4.1	42.8	42.5	277.0	271.6	19	26	85.4	90.3	45.7	45.5	4.5	879
		44.3	44.1	274.8	269.7	19	36	83.3	88.4	44.3	43.9		
		45.7	45.7	272.7	267.8	19	46	81.0	86.4	42.9	42.3		
586	4.1	44.5	44.4	274.4	269.3	19	38	87.1	91.7	47.5	47.4	5.3	1618
		46.0	46.0	272.3	267.4	19	48	85.0	89.8	46.0	45.8		
		47.4	47.6	270.2	265.6	19	58	82.8	87.9	44.6	44.2		
1431	4.3	39.6	39.0	279.9	273.8	19	49	80.3	85.8	42.4	41.8	4.5	879
		41.0	40.6	277.6	271.8	19	59	78.0	83.7	41.0	40.2		
		42.4	42.2	275.3	269.8	20	9	75.5	81.6	39.6	38.6		
1399	5.3	54.5	55.1	264.4	260.9	20	0	96.2	99.3	57.5	58.2	4.4	35
		55.9	56.7	262.5	259.2	20	10	94.2	97.5	56.1	56.6		
		57.3	58.2	260.6	257.5	20	20	92.2	95.7	54.7	55.0		
594	2.5	56.8	56.3	277.7	274.4	20	15	85.3	88.2	59.7	59.4	5.5	1018
		58.3	57.9	275.5	272.4	20	25	83.1	86.2	58.3	57.8		
		59.7	59.5	273.4	270.5	20	35	80.9	84.2	56.9	56.2		
616	1.2	51.2	50.6	278.9	274.9	20	25	80.8	84.4	54.2	53.5	5.2	14
		52.6	52.2	276.7	272.9	20	35	78.6	82.4	52.8	51.9		
		54.0	53.8	274.6	270.9	20	45	76.3	80.3	51.4	50.3		
607	3.1	57.0	57.0	271.8	268.6	20	53	91.7	94.6	60.0	60.2	5.4	61
		58.4	58.6	269.7	266.7	21	3	89.7	92.7	58.5	58.6		
		59.8	60.2	267.7	264.8	21	13	87.6	90.9	57.1	57.0		
646	4.4	45.7	45.0	280.4	275.6	21	3	83.2	87.6	48.5	48.1	4.4	35
		47.1	46.6	278.2	273.5	21	13	81.0	85.6	47.1	46.5		
		48.5	48.2	276.0	271.5	21	23	78.7	83.6	45.7	44.9		
1457	4.3	55.5	55.0	276.7	273.3	21	40	82.0	85.1	58.4	57.8	4.2	71
		56.9	56.6	274.6	271.3	21	50	79.8	83.1	57.0	56.2		
		58.3	58.2	272.5	269.4	22	0	77.6	81.0	55.6	54.7		
687	2.8	46.6	46.0	279.0	274.3	22	3	84.4	88.7	49.4	49.1	4.7	1055
		48.0	47.6	276.8	272.3	22	13	82.2	86.8	48.0	47.5		
		49.4	49.2	274.6	270.3	22	23	80.0	84.7	46.6	45.9		
692	2.9	54.0	53.5	276.5	272.8	22	38	84.8	88.1	57.0	56.7	4.2	1085
		55.4	55.2	274.4	270.9	22	48	82.7	86.1	55.6	55.1		
		56.8	56.8	272.3	269.0	22	58	80.5	84.1	54.2	53.5		
706	2.1	51.7	51.1	278.3	274.3	22	54	81.3	84.9	54.8	54.2	4.2	1085
		53.1	52.7	276.1	272.3	23	4	79.1	82.8	53.4	52.6		
		54.5	54.3	273.9	270.4	23	14	76.8	80.7	52.0	51.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.								Z. D.			
		LAT-55	LAT-50	LAT-55	LAT-50	HRS	MIN	LAT-55	LAT-50	LAT-55	LAT-50		
751	4.4	39.5	39.0	278.5	272.4	23	20	80.1	85.5	42.5	41.9	4.5	101
		40.9	40.6	276.3	270.5	23	30	77.7	83.4	41.1	40.3		
		42.3	42.2	274.1	268.6	23	40	75.3	81.3	39.7	38.7		
736	4.7	52.7	52.0	279.5	275.7	23	35	81.8	85.3	55.6	55.0	4.3	140
		54.1	53.6	277.3	273.6	23	45	79.6	83.2	54.2	53.4		
		55.5	55.2	275.1	271.7	23	55	77.3	81.1	52.8	51.8		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D. LAT-50	LAT-45	LAT-50	LAT-45	HRS	MIN	LAT-50	LAT-45	Z.D. LAT-50	LAT-45		
1550	4.7	39.2	38.7	278.3	272.2	0	11	85.4	99.9	42.5	42.4	4.9	133
		40.8	40.5	276.2	270.3	0	21	83.3	89.1	40.9	40.6		
		42.4	42.3	274.1	268.6	0	31	81.2	87.3	39.3	38.8		
1540	5.5	45.2	45.5	268.5	263.6	0	32	90.3	94.7	48.6	48.9	3.9	170
		46.8	47.3	266.7	262.0	0	42	88.4	93.1	47.0	47.1		
		48.4	49.0	264.8	260.5	0	52	86.4	91.4	45.4	45.3		
779	4.3	52.8	52.6	274.0	270.1	0	51	85.0	88.4	56.1	55.8	3.3	186
		54.4	54.4	272.0	268.4	1	1	83.0	86.6	54.5	54.0		
		56.0	56.1	270.0	266.7	1	11	80.9	84.7	52.9	52.3		
791	4.6	51.2	52.8	276.4	272.4	1	1	83.0	86.6	54.5	54.0	3.2	186
		52.8	52.6	274.4	270.6	1	11	80.9	84.7	52.9	52.3		
		54.4	54.3	272.4	268.8	1	21	78.8	82.8	51.3	50.5		
806	3.9	53.0	52.4	278.8	275.1	1	20	82.4	85.8	56.3	55.8	3.0	204
		54.6	54.1	276.8	273.2	1	30	80.3	83.9	54.7	54.0		
		56.2	55.9	274.7	271.4	1	40	78.2	81.9	53.1	52.2		
806	3.9	54.7	54.3	276.6	273.0	1	31	84.9	88.1	58.1	57.8	3.9	222
		56.3	56.1	274.5	271.2	1	41	82.9	86.2	56.5	56.1		
		57.9	57.8	272.6	269.4	1	51	80.8	84.4	54.9	54.3		
801	4.3	51.2	51.9	263.9	260.0	1	42	86.2	89.7	54.6	55.3	3.1	240
		52.8	53.6	262.1	259.4	1	52	84.4	88.1	53.0	53.5		
		54.3	55.3	260.4	256.9	2	2	82.6	86.5	51.4	51.8		
1592	4.4	45.2	45.3	270.5	265.5	2	19	80.4	83.8	48.6	48.8	3.1	240
		46.8	47.1	268.6	263.9	2	29	78.4	82.1	47.0	47.0		
		48.4	48.8	266.7	262.3	2	39	76.4	80.3	45.4	45.3		
838	5.4	53.2	53.5	269.0	265.3	2	33	92.4	95.7	56.6	57.0	2.0	273
		54.8	55.2	267.1	263.7	2	43	90.5	94.0	55.0	55.2		
		56.4	57.3	265.2	262.0	2	53	88.6	92.3	53.4	53.5		
879	4.5	41.3	41.1	274.0	269.2	2	43	84.6	88.6	44.8	44.5	3.1	246
		42.9	42.9	272.0	267.5	2	53	82.5	87.8	43.2	42.8		
		44.5	44.6	270.0	265.8	3	3	80.3	86.0	41.6	41.0		
879	4.5	43.0	43.3	272.7	267.3	2	54	80.8	85.6	46.2	46.4	3.8	1180
		44.6	44.8	270.7	265.7	3	4	78.9	84.0	44.6	44.7		
		46.3	46.6	268.8	264.3	3	14	76.9	82.3	43.0	42.9		
854	4.2	55.3	55.6	267.8	264.4	3	9	92.0	95.1	58.5	58.8	3.5	1204
		56.9	57.4	266.0	262.8	3	19	90.1	93.4	56.9	57.1		
		58.5	59.1	264.2	261.2	3	29	88.2	91.7	55.3	55.3		
854	4.2	56.9	57.4	266.0	262.8	3	19	93.1	95.9	60.2	60.6	2.9	308
		58.5	59.1	264.2	261.2	3	29	91.2	94.3	58.6	58.9		
		60.1	60.9	262.4	259.6	3	39	89.3	92.6	57.0	57.1		
873	3.8	58.2	57.0	274.3	271.2	3	30	84.8	87.6	61.5	61.2	4.6	1212
		59.9	59.7	272.3	269.4	3	40	82.8	85.7	59.9	59.4		
		61.4	61.5	270.4	267.7	3	50	80.8	83.9	58.3	57.6		
6	5.2	40.9	41.1	270.2	264.5	3	44	93.2	98.1	44.2	44.7	4.6	290
		42.5	42.9	268.3	262.9	3	54	91.2	96.5	42.6	43.0		
		44.1	44.7	266.5	261.4	4	4	89.2	95.0	41.0	41.2		
826	4.6	53.3	53.7	268.0	264.5	4	10	94.5	97.7	56.6	57.1	4.2	332
		54.9	55.4	266.4	262.9	4	20	92.6	96.1	55.0	55.4		
		56.5	57.2	264.6	261.3	4	30	90.7	94.5	53.4	53.6		
896	4.6	56.4	57.1	264.7	261.5	4	29	95.2	98.0	59.7	60.3	4.9	1243
		58.0	58.7	262.9	259.9	4	39	93.3	96.4	58.1	58.5		
		59.6	60.5	261.1	258.3	4	49	91.5	94.8	56.5	56.8		
35	4.4	47.2	47.2	273.4	268.8	4	47	87.5	91.6	50.6	50.6	4.2	332
		48.9	48.9	271.4	267.1	4	57	85.5	89.8	49.0	48.8		
		50.5	50.7	269.5	265.4	5	7	83.4	88.0	47.4	47.1		
14	5.2	57.3	57.3	271.0	267.8	4	57	88.2	91.0	60.6	60.5	5.2	1247
		58.9	59.1	269.1	266.1	5	7	86.2	89.2	58.9	58.7		
		60.5	60.9	267.2	264.4	5	17	84.2	87.4	57.3	57.0		
1055	4.7	42.0	41.4	280.5	274.9	5	20	80.6	85.6	45.4	44.8	4.2	332
		43.6	43.1	278.3	273.0	5	30	78.4	83.7	43.8	43.0		
		45.2	44.9	276.1	271.2	5	40	76.1	81.6	42.2	41.2		
1043	5.1	55.7	55.3	276.6	273.2	5	37	82.0	85.9	59.2	58.7	5.2	373
		57.3	57.1	274.6	271.4	5	47	80.8	84.0	57.6	56.9		
		58.9	58.8	272.6	269.6	5	57	78.7	82.1	56.0	55.2		
1055	4.7	46.3	46.1	274.7	269.9	5	47	86.2	90.5	49.6	49.4	5.0	366
		47.9	47.9	272.7	268.2	5	57	84.2	88.7	48.0	47.7		
		49.6	49.7	270.7	266.5	6	7	82.1	86.9	46.4	45.9		
61	5.4	54.7	54.7	271.0	268.4	6	2	89.5	92.6	58.0	58.1	5.3	399
		56.3	56.5	270.0	266.7	6	12	87.5	90.9	56.4	56.3		
		57.9	58.2	268.1	265.0	6	22	85.6	89.1	54.8	54.5		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-50 LAT-45	LAT-50 LAT-45	LAT-50 LAT-45	LAT-50 LAT-45	HRS MIN	HRS MIN	LAT-50 LAT-45	LAT-50 LAT-45	Z. D. LAT-50 LAT-45	LAT-50 LAT-45		
83	5.4	52.2	51.8	277.2	273.3	6	18	86.3	89.8	55.4	55.3	5.3	399
		53.8	53.6	275.2	271.5	6	28	84.3	88.0	53.8	53.5		
		55.4	55.3	273.2	269.7	6	38	82.3	86.2	52.2	51.7		
1055	4.7	52.9	53.4	266.8	263.0	6	28	93.5	96.8	56.4	56.8	5.1	419
		54.5	55.1	264.9	261.4	6	38	91.6	95.1	54.8	55.0		
		56.1	56.9	263.1	259.9	6	48	89.7	93.4	53.1	53.3		
83	5.4	55.6	55.5	273.0	269.5	6	39	88.8	91.9	58.8	58.8	4.5	421
		57.2	57.3	271.0	267.8	6	49	86.9	90.1	57.1	57.0		
		58.8	59.0	269.1	266.1	6	59	84.9	88.3	55.5	55.2		
102	4.8	55.0	54.4	278.7	275.2	6	51	80.4	83.5	59.2	57.5	4.2	1283
		56.6	56.2	276.6	273.3	7	1	78.3	81.6	56.7	55.8		
		58.2	57.9	274.6	271.5	7	11	76.2	79.6	55.1	54.0		
101	4.5	49.0	49.5	265.9	261.6	7	1	96.6	100.4	52.4	53.2	3.7	434
		50.6	51.3	264.1	260.1	7	11	94.8	98.9	50.8	51.4		
		52.2	53.0	262.4	258.6	7	21	93.0	97.3	49.2	49.7		
133	4.9	45.0	45.0	271.5	266.5	7	27	91.9	96.3	48.2	48.6	3.7	434
		46.5	46.8	269.6	264.9	7	37	90.0	94.7	46.6	46.8		
		48.2	48.6	267.7	263.3	7	47	88.1	93.1	45.0	45.1		
103	4.2	42.7	43.3	266.2	260.9	7	37	94.4	99.2	45.9	46.5	4.9	439
		44.3	45.0	264.5	259.5	7	47	92.6	97.7	44.3	44.8		
		45.9	46.7	262.7	258.0	7	57	90.7	96.1	42.7	43.0		
140	4.3	53.7	53.3	276.4	272.7	7	49	86.4	89.6	57.0	56.9	3.2	453
		55.3	55.1	274.3	270.9	7	59	84.4	87.9	55.4	55.1		
		56.9	56.9	272.4	269.1	8	9	82.3	86.0	53.8	53.3		
140	4.3	55.5	55.3	274.1	270.7	8	9	89.6	92.7	58.6	56.7	2.8	471
		57.1	57.1	272.2	268.9	8	10	87.7	90.9	57.0	56.9		
		58.7	58.8	270.2	267.2	8	20	85.7	89.2	55.4	55.2		
197	4.9	41.9	42.2	269.7	264.1	8	55	92.2	97.1	45.2	45.6	5.0	1331
		43.5	43.9	267.8	262.6	9	5	90.3	95.6	43.6	43.8		
		45.1	45.7	266.0	261.1	9	15	88.4	94.0	42.0	42.1		
215	2.9	40.5	40.5	273.1	267.2	9	5	90.3	95.6	43.6	43.8	5.0	1331
		42.1	42.2	271.1	265.5	9	15	88.4	94.0	42.0	42.1		
		43.7	44.0	269.2	264.0	9	25	86.4	92.3	40.4	40.3		
1160	4.4	38.6	38.6	273.0	266.7	9	16	88.2	93.8	41.8	41.9	5.0	1331
		40.2	40.4	271.0	265.1	9	26	86.2	92.1	40.2	40.1		
		41.8	42.2	269.1	263.5	9	36	84.1	90.4	38.6	38.4		
215	2.9	45.1	45.6	267.5	262.5	9	34	94.1	98.5	48.4	48.9	4.4	506
		46.7	47.3	265.6	261.0	9	44	92.3	97.0	46.7	47.2		
		48.3	49.1	263.9	259.5	9	54	90.4	95.4	45.1	45.4		
1160	4.4	43.3	43.7	267.4	262.1	9	45	92.1	96.8	46.6	47.0	4.4	506
		44.9	45.5	265.6	260.6	9	55	90.2	95.2	45.0	45.2		
		46.5	47.2	263.8	259.2	10	5	88.3	93.6	43.4	43.5		
240	3.1	47.7	47.7	271.8	267.3	10	14	91.1	95.1	51.1	51.4	5.0	532
		49.3	49.5	269.9	265.6	10	24	89.2	93.5	49.5	49.6		
		50.9	51.2	268.0	264.0	10	34	87.2	91.8	47.9	47.8		
268	1.6	44.2	43.7	278.3	273.2	10	26	81.7	86.2	47.6	47.1	3.5	519
		45.8	45.5	276.2	271.3	10	36	79.5	84.3	46.0	45.3		
		47.4	47.2	274.2	269.6	10	46	77.3	82.4	44.5	43.6		
268	1.6	47.7	47.6	273.8	269.2	10	48	85.1	89.2	51.1	50.9	5.4	1385
		49.3	49.4	271.8	267.5	10	58	83.1	87.4	49.5	49.1		
		50.9	51.1	269.9	265.8	11	8	81.0	85.5	47.9	47.3		
273	2.0	49.6	49.2	276.2	271.9	10	58	85.7	89.5	52.7	52.5	3.4	556
		51.2	51.0	274.2	270.1	11	8	83.6	87.7	51.1	50.7		
		52.8	52.7	272.2	268.4	11	18	81.6	85.8	49.5	48.9		
268	1.6	50.9	51.1	269.9	265.8	11	8	92.7	96.2	54.4	54.8	3.8	579
		52.5	52.9	268.0	264.2	11	18	90.8	94.6	52.8	53.0		
		54.2	54.6	266.1	262.5	11	28	88.9	92.9	51.2	51.2		
283	2.4	48.9	48.9	271.8	267.4	11	22	90.0	93.9	52.1	52.3	3.8	579
		50.5	50.7	269.8	265.7	11	32	88.1	92.2	50.5	50.5		
		52.1	52.4	267.9	264.1	11	42	86.1	90.5	48.9	48.8		
288	4.5	53.8	53.3	278.1	274.5	11	32	81.8	85.0	57.3	56.8	5.0	1413
		55.4	55.0	276.1	272.6	11	42	79.7	83.1	55.8	55.0		
		57.0	56.9	274.1	270.8	11	52	77.5	81.1	54.2	53.3		
288	4.5	55.7	55.4	275.7	272.3	11	44	84.2	87.2	59.1	58.7	2.9	597
		57.3	57.2	273.7	270.5	11	54	82.2	85.4	57.5	56.9		
		58.9	58.9	271.7	268.7	12	4	80.1	83.5	55.9	55.2		
308	2.9	50.9	50.3	278.4	274.3	11	56	83.0	86.6	54.3	53.8	2.5	594
		52.5	52.1	276.3	272.4	12	6	80.9	84.8	52.7	52.1		
		54.1	53.9	274.3	270.6	12	16	78.8	82.8	51.1	50.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		FAST STAR		MAG	CATNO
		Z. D.	LAT-50 LAT-45	LAT-50 LAT-45	HRS MIN	LAT-50 LAT-45	Z. D.	LAT-50 LAT-45					
332	4.2	45.0	44.3	279.9	274.9	12 17	81.5	85.9	48.2	47.7	3.0	592	
		46.6	46.1	277.7	273.0	12 27	79.3	84.0	46.6	45.9			
		48.2	47.9	275.6	271.1	12 37	77.1	82.0	45.1	44.1			
332	4.2	47.2	46.8	276.9	272.2	12 31	85.2	89.3	50.6	50.4	1.2	616	
		48.8	48.6	274.8	270.4	12 41	83.1	87.5	49.0	48.6			
		50.4	50.4	272.8	268.7	12 51	81.0	85.6	47.4	46.8			
356	4.6	38.8	39.0	271.6	265.4	12 51	90.2	95.7	42.2	42.5	4.3	1431	
		40.4	40.7	269.6	263.8	13 1	88.2	94.1	40.6	40.7			
		42.0	42.5	267.8	262.3	13 11	86.2	92.4	39.0	38.9			
356	4.6	40.4	40.7	269.6	263.8	13 1	91.4	96.5	43.9	44.2	2.4	628	
		42.0	42.5	267.8	262.3	13 11	89.5	95.0	42.3	42.5			
		43.6	44.2	265.9	260.8	13 21	87.5	93.3	40.7	40.7			
1243	4.9	50.0	49.7	276.5	272.2	13 12	86.3	90.0	53.5	53.3	3.4	644	
		51.6	51.4	274.4	270.4	13 22	84.2	88.2	51.9	51.5			
		53.3	53.2	272.4	268.7	13 32	82.2	86.3	50.3	49.8			
332	4.2	57.2	57.7	264.9	261.7	13 33	95.2	98.0	60.4	60.9	2.9	692	
		58.8	59.5	263.0	260.1	13 43	93.4	96.4	58.8	58.2			
		60.3	61.2	261.3	258.5	13 53	91.5	94.7	57.2	57.4			
1243	4.9	55.3	55.5	269.9	266.5	13 45	93.0	96.0	58.4	58.8	2.9	692	
		56.9	57.3	268.0	264.8	13 55	91.1	94.4	56.8	57.1			
		58.6	59.0	266.1	263.1	14 5	89.2	92.7	55.2	55.3			
366	5.0	52.7	52.9	270.0	266.2	13 59	90.3	93.7	56.2	56.4	2.9	692	
		54.3	54.6	268.1	264.5	14 9	88.4	92.0	54.6	54.6			
		55.9	56.4	266.2	262.9	14 19	86.5	90.2	53.0	52.8			
392	4.4	46.1	46.2	272.0	267.2	14 15	90.0	94.2	49.5	49.6	2.8	687	
		47.8	47.9	270.1	265.5	14 25	88.0	92.5	47.9	47.9			
		49.4	49.7	268.2	263.9	14 35	86.0	90.8	46.3	46.1			
414	4.7	39.3	39.7	268.6	262.6	14 26	94.7	100.0	42.7	43.4	3.2	683	
		41.0	41.5	266.8	261.1	14 36	92.9	98.6	41.1	41.6			
		42.6	43.2	265.0	259.7	14 46	91.1	97.1	39.5	39.9			
419	5.1	46.5	45.9	278.7	274.0	14 39	82.4	86.6	49.8	49.3	2.9	692	
		48.1	47.7	276.6	272.1	14 49	80.2	84.7	48.2	47.5			
		49.7	49.4	274.6	270.3	14 59	78.0	82.8	46.6	45.8			
434	3.7	40.5	40.1	277.7	271.8	14 49	83.1	89.3	44.0	42.6	2.8	687	
		42.1	41.9	275.6	270.0	14 59	81.0	86.5	42.4	41.9			
		43.7	43.7	273.5	268.3	15 9	78.7	84.6	40.8	40.1			
421	4.5	52.5	51.8	279.1	275.2	15 3	82.3	85.7	55.8	55.2	3.0	726	
		54.1	53.6	277.0	273.4	15 13	80.2	83.8	54.2	53.5			
		55.6	55.4	275.0	271.5	15 23	78.0	81.9	52.6	51.7			
419	5.1	52.1	52.1	271.6	267.7	15 14	88.7	92.1	55.5	55.6	4.7	736	
		53.7	53.9	269.7	266.0	15 24	86.8	90.4	53.9	53.8			
		55.3	55.6	267.8	264.3	15 34	84.7	88.6	52.3	52.0			
421	4.5	55.8	55.5	274.8	271.4	15 24	84.4	87.4	59.2	58.8	5.1	1517	
		57.4	57.3	272.8	269.6	15 34	82.4	85.6	57.6	57.1			
		59.0	59.1	270.8	267.8	15 44	80.3	83.7	56.0	55.3			
1305	5.5	48.9	48.5	276.6	272.2	15 35	84.5	88.4	52.2	51.9	4.7	736	
		50.5	50.2	274.6	270.4	15 45	82.5	86.6	50.6	50.1			
		52.1	52.0	272.6	268.7	15 55	80.4	84.7	49.0	48.3			
419	5.1	57.5	58.1	265.2	262.1	15 48	98.1	100.8	60.7	61.5	4.2	1546	
		59.1	59.8	263.4	260.4	15 58	96.3	99.2	59.1	59.8			
		60.7	61.6	261.6	258.9	16 8	94.5	97.6	57.5	58.0			
1305	5.5	54.3	54.5	269.8	266.3	16 9	91.8	95.0	57.6	57.9	4.3	779	
		55.9	56.2	267.9	264.6	16 19	89.9	93.3	56.0	56.1			
		57.5	58.0	266.1	262.9	16 29	88.0	91.6	54.4	54.3			
1305	5.5	56.1	56.4	267.8	264.4	16 20	93.5	96.4	59.4	58.8	4.6	791	
		57.7	58.2	265.9	262.8	16 30	91.6	94.7	57.8	58.0			
		59.3	59.9	264.1	261.2	16 40	89.7	93.1	56.1	56.3			
1331	5.0	43.7	44.0	269.5	264.3	16 35	93.6	98.2	47.0	47.5	5.5	1540	
		45.3	45.7	267.6	262.7	16 45	91.7	96.6	45.4	45.7			
		46.9	47.5	265.8	261.2	16 55	89.8	95.0	43.7	44.0			
471	2.8	56.1	55.0	273.4	270.1	16 51	89.2	92.2	59.4	58.4	3.9	806	
		57.7	57.7	271.5	268.3	17 1	87.3	90.4	57.8	57.7			
		59.3	59.5	269.6	266.6	17 11	85.3	88.6	56.2	55.9			
495	3.3	52.7	52.1	278.2	274.4	17 13	84.9	88.3	55.8	55.5	3.9	806	
		54.3	53.9	276.1	272.5	17 23	82.8	86.5	54.2	53.8			
		55.9	55.6	274.1	270.7	17 33	80.8	84.6	52.7	52.0			
515	5.2	48.7	48.0	280.1	275.7	17 36	80.1	84.0	52.2	51.5	3.9	806	
		50.3	49.8	278.0	273.8	17 46	78.0	82.1	50.6	49.7			
		51.9	51.6	275.9	272.0	17 56	75.7	80.1	49.0	48.0			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-50 LAT-45	Z. D. LAT-50 LAT-45	Z. D. LAT-50 LAT-45	Z. D. LAT-50 LAT-45	HRS MIN	HRS MIN	Z. D. LAT-50 LAT-45	Z. D. LAT-50 LAT-45	Z. D. LAT-50 LAT-45	Z. D. LAT-50 LAT-45		
544	4.1	39.5	39.5	272.3	266.3	18	6	88.2	93.5	43.0	43.0	4.4	814
		41.1	41.3	270.4	264.7	18	16	86.2	91.8	41.4	41.3		
		42.7	43.0	268.5	263.1	18	26	84.1	90.1	39.8	39.5		
544	4.1	41.4	41.6	270.0	264.3	18	18	90.3	95.3	44.8	45.1	4.6	832
		43.0	43.4	268.1	262.8	18	28	88.4	93.7	43.2	43.3		
		44.6	45.1	266.3	261.3	18	38	86.4	92.1	41.6	41.6		
544	4.1	43.5	43.9	267.5	262.3	18	31	91.6	96.2	46.9	47.2	4.4	1592
		45.1	45.7	265.7	260.9	18	41	89.7	94.6	45.3	45.5		
		46.7	47.4	264.0	259.3	18	51	87.7	93.0	43.7	43.7		
579	3.8	44.0	43.4	280.3	275.2	18	59	82.5	87.1	47.4	47.0	4.2	854
		45.6	45.1	278.2	273.2	19	9	80.3	85.2	45.8	45.2		
		47.2	46.9	276.1	271.4	19	19	78.1	83.3	44.3	43.5		
586	4.1	42.3	42.4	271.8	266.3	19	25	90.5	95.4	45.7	46.0	4.5	879
		43.9	44.1	269.9	264.7	19	35	88.6	93.8	44.1	44.2		
		45.5	45.9	268.0	263.1	19	45	86.6	92.1	42.5	42.4		
586	4.1	44.2	44.5	269.5	264.4	19	37	91.9	96.4	47.6	47.9	5.3	1618
		45.8	46.2	267.6	262.8	19	47	90.0	94.8	46.0	46.2		
		47.4	48.0	265.8	261.3	19	57	88.1	93.2	44.4	44.4		
1431	4.3	38.7	38.6	274.2	267.9	19	47	86.2	91.7	42.2	42.1	4.5	879
		40.3	40.3	272.2	266.3	19	57	84.1	90.0	40.6	40.3		
		41.9	42.1	270.2	264.7	20	7	82.0	88.2	39.0	38.5		
1431	4.3	40.6	40.7	271.8	266.0	19	59	87.7	92.9	44.0	44.1	5.3	1618
		42.2	42.4	269.8	264.4	20	9	85.7	91.2	42.4	42.3		
		43.8	44.2	268.0	262.8	20	19	83.6	89.4	40.8	40.5		
594	2.5	56.3	56.1	274.4	271.1	20	15	88.2	91.1	59.4	59.4	5.5	1018
		57.9	57.9	272.4	269.3	20	25	86.2	89.4	57.8	57.7		
		59.5	59.6	270.5	267.5	20	35	84.2	87.6	56.2	55.9		
1439	3.1	39.5	40.0	266.6	260.6	20	25	92.1	97.4	42.9	43.3	5.2	6
		41.1	41.8	264.8	259.2	20	35	90.2	95.9	41.3	41.6		
		42.7	43.5	263.1	257.8	20	45	88.3	94.3	39.7	39.8		
628	2.4	46.0	46.5	266.2	261.4	20	50	93.0	97.3	49.3	49.8	5.5	1026
		47.6	48.3	264.4	259.9	21	0	91.2	95.7	47.7	48.0		
		49.2	50.0	262.6	258.4	21	10	89.3	94.1	46.1	46.3		
646	4.4	45.0	44.7	275.6	270.5	21	3	87.6	92.1	48.1	48.1	4.4	35
		46.6	46.5	273.5	268.8	21	13	85.6	90.4	46.5	46.3		
		48.2	48.3	271.5	267.1	21	23	83.6	88.6	44.9	44.6		
1457	4.3	52.1	51.7	276.9	273.0	21	22	83.0	86.5	55.5	55.0	5.1	1043
		53.7	53.5	274.8	271.2	21	32	81.0	84.6	53.9	53.2		
		55.3	55.2	272.9	269.4	21	42	78.8	82.7	52.3	51.5		
1457	4.3	54.7	54.5	273.6	270.1	21	38	85.5	88.6	58.2	57.9	4.2	71
		56.3	56.3	271.7	268.3	21	48	83.5	86.8	56.6	56.1		
		57.9	58.1	269.8	266.6	21	58	81.4	84.9	55.0	54.4		
687	2.8	45.9	45.7	274.5	269.6	22	2	88.9	93.2	49.3	49.4	4.7	1055
		47.5	47.5	272.5	267.9	22	12	87.0	91.5	47.7	47.6		
		49.1	49.2	270.5	266.2	22	22	84.9	89.8	46.1	45.8		
692	2.9	50.2	49.7	277.1	272.9	22	17	84.5	88.2	53.6	53.2	5.4	83
		51.8	51.5	275.0	271.1	22	27	82.4	86.4	52.0	51.5		
		53.4	53.3	273.0	269.3	22	37	80.3	84.5	50.4	49.7		
689	2.0	46.7	47.4	265.1	260.5	22	29	95.3	99.4	50.0	50.7	4.5	101
		48.3	49.1	263.4	259.0	22	39	93.5	97.8	48.4	48.9		
		49.9	50.8	261.6	257.5	22	49	91.6	96.3	46.8	47.2		
710	3.6	52.7	51.8	281.7	277.9	22	43	82.6	86.0	56.0	55.5	4.8	102
		54.3	53.6	279.6	276.0	22	53	80.5	84.1	54.4	53.7		
		55.9	55.4	277.5	274.1	23	3	78.4	82.2	52.8	52.0		
706	2.1	51.0	50.7	274.5	270.4	22	53	85.1	88.7	54.3	54.1	4.2	1085
		52.6	52.5	272.5	268.7	23	3	83.1	86.9	52.7	52.3		
		54.2	54.3	270.6	267.0	23	13	81.0	85.0	51.1	50.5		
751	4.4	38.7	38.7	272.8	266.6	23	18	85.9	91.5	42.2	42.1	4.5	101
		40.3	40.5	270.9	265.0	23	28	83.9	89.7	40.6	40.3		
		41.9	42.2	268.9	263.4	23	38	81.7	87.9	39.0	38.5		
736	4.7	51.9	51.5	275.9	271.9	23	34	85.5	88.9	55.2	54.9	4.3	140
		53.5	53.3	273.8	270.1	23	44	83.4	87.1	53.6	53.2		
		55.1	55.1	271.9	268.4	23	54	81.3	85.3	52.0	51.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D. LAT-45	LAT-40	LAT-45	LAT-40	HRS	MIN	LAT-45	LAT-40	Z.D. LAT-45	LAT-40		
779	4.3	45.2	44.7	278.0	273.1	0	9	82.4	86.8	48.8	48.3	4.3	140
		47.0	46.6	276.1	271.4	0	19	80.4	85.1	47.0	46.4		
		48.7	48.5	274.2	269.8	0	29	78.3	83.3	45.3	44.5		
779	4.3	52.2	52.4	270.5	266.6	0	49	88.7	92.1	56.2	56.2	3.3	186
		54.0	54.3	268.7	265.1	0	59	86.9	90.5	54.4	54.3		
		55.8	56.2	267.0	263.7	1	9	85.1	88.9	52.6	52.4		
806	3.9	49.7	49.2	277.9	273.7	1	5	85.8	89.6	53.3	53.1	3.3	186
		51.5	51.1	276.0	272.0	1	15	83.9	87.9	51.6	51.2		
		53.2	53.0	274.1	270.4	1	25	82.0	86.2	49.8	49.3		
806	3.9	52.2	51.9	275.2	271.3	1	19	85.9	89.3	55.9	55.7	3.0	204
		53.9	53.8	273.4	269.7	1	29	84.1	87.7	54.2	53.8		
		55.7	55.7	271.5	268.1	1	39	82.1	86.0	52.4	51.9		
812	3.9	56.6	55.9	279.8	276.5	1	36	81.1	84.0	60.2	59.6	3.7	219
		58.4	57.8	277.9	274.8	1	46	79.1	82.2	58.5	57.7		
		60.1	59.7	276.0	273.1	1	56	77.1	80.4	56.8	55.8		
1594	5.4	49.7	49.1	279.3	275.1	1	57	83.2	87.0	53.2	52.8	3.9	222
		51.5	51.0	277.3	273.3	2	7	81.3	85.3	51.5	50.9		
		53.2	52.9	275.4	271.7	2	17	79.3	83.5	49.7	49.0		
1592	4.4	45.2	45.7	265.7	261.8	2	18	93.9	98.2	49.0	49.5	3.1	240
		46.9	47.6	264.0	259.5	2	28	92.2	96.8	47.2	47.6		
		48.7	49.5	262.5	258.2	2	38	90.5	95.4	45.4	45.7		
838	5.4	53.5	54.0	265.3	261.7	2	33	95.7	98.9	57.0	57.6	2.9	273
		55.2	55.9	263.7	260.3	2	43	94.0	97.5	55.2	55.7		
		57.0	57.8	262.0	258.9	2	53	92.3	96.0	53.5	53.8		
867	1.3	47.4	47.7	268.1	263.6	2	48	94.1	98.1	51.1	51.6	1.6	268
		49.1	49.6	266.4	262.2	2	58	92.5	96.7	49.3	49.7		
		50.9	51.5	264.8	260.8	3	8	90.7	95.3	47.5	47.8		
867	1.3	49.7	50.2	265.9	261.8	3	1	96.5	100.2	53.1	53.8	2.4	283
		51.4	52.1	264.3	260.4	3	11	94.9	98.8	51.3	51.9		
		53.2	54.0	262.7	259.0	3	21	93.2	97.4	49.6	50.0		
896	4.6	43.9	43.8	274.2	269.0	3	15	88.9	93.5	47.5	47.6	3.7	1183
		45.7	45.7	272.3	267.4	3	25	87.1	92.0	45.7	45.7		
		47.5	47.6	270.5	265.9	3	35	85.2	90.4	43.9	43.7		
873	3.8	57.8	57.8	271.4	268.2	3	29	87.8	90.5	61.3	61.3	4.6	1212
		59.5	59.7	269.6	266.7	3	39	85.9	88.9	59.6	59.4		
		61.3	61.6	267.8	265.1	3	49	84.1	87.2	57.8	57.4		
1621	5.3	55.7	55.1	278.2	274.8	3	41	85.6	88.6	59.2	59.0	4.6	1212
		57.4	57.0	276.3	273.1	3	51	83.7	86.9	57.5	57.1		
		59.2	58.9	274.4	271.4	4	1	81.8	85.2	55.7	55.2		
14	5.2	46.2	45.6	279.5	274.7	3	54	81.8	86.0	49.8	49.3	4.5	288
		48.0	47.5	277.5	272.9	4	4	79.7	84.3	48.1	47.4		
		49.7	49.4	275.5	271.3	4	14	77.7	82.4	46.4	45.5		
896	4.6	53.7	54.3	264.5	260.9	4	10	97.7	100.9	57.1	57.9	4.2	332
		55.4	56.2	262.9	259.6	4	20	96.1	99.5	55.4	56.0		
		57.2	58.1	261.3	258.2	4	30	94.5	98.1	53.6	54.1		
1026	5.5	40.6	40.8	271.5	265.7	4	21	89.8	94.9	44.3	44.5	4.9	1217
		42.4	42.7	269.7	264.2	4	31	88.0	93.4	42.5	42.6		
		44.2	44.6	268.0	262.9	4	41	86.1	91.9	40.8	40.7		
35	4.4	47.0	47.3	269.0	264.3	4	46	91.7	95.8	50.8	51.1	4.2	332
		48.7	49.2	267.2	262.9	4	56	90.0	94.3	49.0	49.2		
		50.5	51.1	265.6	261.5	5	6	88.2	92.8	47.2	47.3		
14	5.2	57.1	57.5	267.9	264.7	4	56	91.2	94.0	60.7	60.9	5.2	1247
		58.9	59.4	266.2	263.2	5	6	89.4	92.4	58.9	59.0		
		60.7	61.3	264.5	261.8	5	16	87.6	90.9	57.2	57.1		
1055	4.7	41.2	41.0	275.1	269.3	5	19	85.8	90.8	44.9	44.8	4.2	332
		43.0	42.0	273.2	267.8	5	29	83.9	89.2	43.2	42.9		
		44.7	44.8	271.3	266.3	5	39	81.8	87.5	41.4	41.0		
71	4.2	50.1	49.5	279.7	275.6	5	36	83.9	87.6	53.6	53.3	5.2	1247
		51.9	51.4	277.8	273.8	5	46	82.0	85.9	51.9	51.4		
		53.7	53.3	275.8	272.1	5	56	80.0	84.2	50.1	49.4		
1055	4.7	46.0	46.2	270.1	265.3	5	46	90.7	94.9	49.6	49.9	5.0	366
		47.7	48.1	268.3	263.8	5	56	88.9	93.4	47.8	48.0		
		49.5	50.0	266.6	262.4	6	6	87.1	91.9	46.1	46.0		
61	5.4	54.5	54.8	268.5	265.0	6	1	92.8	95.8	58.3	58.6	5.3	399
		56.3	56.7	266.8	263.5	6	11	91.0	94.3	56.5	56.7		
		58.1	58.6	265.1	262.1	6	21	89.3	92.8	54.7	54.8		
83	5.4	51.8	51.7	273.3	269.4	6	18	89.8	93.3	55.3	55.4	5.3	399
		53.6	53.6	271.5	267.8	6	28	88.0	91.7	53.5	53.5		
		55.3	55.5	269.7	266.3	6	38	86.2	90.1	51.7	51.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNC
		LAT-45	LAT-40	LAT-45	LAT-40	HRS	MIN	LAT-45	LAT-40	LAT-45	LAT-40		
101	4.5	43.9	44.4	266.8	261.6	6	29	94.2	96.7	47.7	48.2	4.4	392
		45.7	46.3	265.1	260.3	6	39	92.5	97.3	45.9	46.3		
		47.4	48.2	263.5	259.0	6	49	90.8	95.9	44.1	44.4		
1085	4.2	51.9	51.8	273.5	269.6	6	58	88.5	92.0	55.4	55.4	4.5	421
		53.7	53.7	271.7	268.0	7	8	86.7	90.4	53.7	53.5		
		55.5	55.6	269.9	266.5	7	18	84.8	88.8	51.9	51.6		
102	4.8	58.1	58.1	271.3	268.2	7	12	88.0	90.7	61.7	61.7	4.9	1301
		59.9	60.0	269.5	266.7	7	22	86.2	89.1	60.0	59.8		
		61.6	62.0	267.8	265.1	7	32	84.3	87.4	58.2	57.8		
1085	4.2	57.1	57.3	268.3	265.1	7	27	93.5	96.2	60.8	61.2	3.2	453
		58.8	59.3	266.6	263.6	7	37	91.8	94.7	59.0	59.3		
		60.6	61.2	264.9	262.1	7	47	90.0	93.2	57.2	57.4		
140	4.3	53.3	53.3	272.7	268.9	7	49	89.6	92.9	56.9	57.0	3.2	453
		55.1	55.2	270.9	267.4	7	59	87.9	91.3	55.1	55.1		
		56.9	57.1	269.1	265.9	8	9	86.0	89.8	53.3	53.2		
140	4.3	55.3	55.4	270.7	267.2	8	0	92.7	95.7	58.7	59.1	2.8	471
		57.1	57.3	268.9	265.7	8	10	90.9	94.2	56.9	57.2		
		58.8	59.2	267.2	264.2	8	20	89.2	92.6	55.2	55.3		
215	2.8	40.5	41.0	267.2	261.4	9	5	95.6	100.7	43.8	44.5	5.0	1331
		42.2	42.9	265.5	260.1	9	15	94.0	99.4	42.1	42.7		
		44.0	44.7	264.0	258.9	9	25	92.3	98.1	40.3	40.8		
204	3.0	52.6	52.1	277.6	273.8	9	17	82.1	85.5	56.2	55.7	4.8	1345
		54.4	54.0	275.7	272.1	9	27	80.2	83.7	54.5	53.8		
		56.1	56.0	273.8	270.5	9	37	78.1	81.9	52.7	51.9		
222	3.9	50.6	50.0	279.7	275.6	9	29	79.8	83.4	54.1	53.4	4.8	1345
		52.4	51.9	277.7	273.9	9	39	77.7	81.6	52.4	51.5		
		54.1	53.8	275.8	272.2	9	49	75.6	79.7	50.7	49.6		
222	3.9	53.2	52.8	276.8	273.0	9	44	82.8	86.1	57.1	56.6	5.1	510
		55.0	54.7	274.9	271.3	9	54	80.9	84.3	55.4	54.7		
		56.8	56.7	273.0	269.7	10	4	78.9	82.6	53.6	52.8		
240	3.1	47.7	48.1	267.3	262.8	10	14	95.1	99.1	51.4	52.0	5.0	532
		49.5	50.0	265.6	261.4	10	24	93.5	97.7	49.6	50.1		
		51.2	51.9	264.0	260.0	10	34	91.8	96.3	47.8	48.2		
268	1.6	43.5	43.5	273.4	268.1	10	25	86.4	91.1	47.3	47.2	3.5	519
		45.3	45.4	271.5	266.6	10	35	84.5	89.5	45.5	45.2		
		47.1	47.3	269.7	265.1	10	45	82.6	87.8	43.7	43.3		
283	2.4	41.1	40.9	275.4	269.6	10	38	87.9	89.0	45.0	44.7	3.5	519
		42.9	42.8	273.5	268.1	10	48	82.0	87.3	43.2	42.7		
		44.7	44.8	271.6	266.6	10	58	79.9	85.6	41.5	40.8		
273	2.0	49.0	49.0	272.1	267.8	10	57	89.7	93.5	52.7	52.8	3.4	556
		50.8	50.9	270.3	266.2	11	7	87.9	92.0	50.9	50.9		
		52.6	52.9	268.6	264.8	11	17	86.0	90.4	49.1	49.0		
268	1.6	51.1	51.7	265.8	261.8	11	8	96.2	99.7	54.8	55.5	3.8	579
		52.9	53.6	264.2	260.5	11	18	94.6	98.3	53.0	53.6		
		54.6	55.4	262.5	259.1	11	28	92.9	96.9	51.2	51.7		
283	2.4	48.7	49.1	267.6	263.2	11	21	94.1	97.9	52.5	53.0	3.8	579
		50.5	51.0	265.9	261.8	11	31	92.4	96.4	50.7	51.1		
		52.3	52.9	264.2	260.5	11	41	90.7	95.0	48.9	49.2		
288	4.5	53.1	52.9	274.7	270.9	11	31	85.2	88.4	56.9	56.7	5.0	1413
		54.9	54.8	272.8	269.3	11	41	83.3	86.8	55.2	54.7		
		56.6	56.7	271.0	267.7	11	51	81.3	85.1	53.4	52.8		
288	4.5	55.2	55.2	272.4	269.0	11	43	87.4	90.4	58.9	58.8	2.9	597
		57.0	57.1	270.6	267.4	11	53	85.6	88.8	57.1	56.9		
		58.8	59.0	268.9	265.9	12	3	83.7	87.2	55.4	55.0		
308	2.9	50.3	50.1	274.3	270.1	11	56	86.6	90.3	53.8	53.7	2.5	594
		52.1	52.0	272.4	268.5	12	6	84.8	88.7	52.1	51.8		
		53.9	54.0	270.6	267.0	12	16	82.8	87.0	50.3	49.9		
332	4.2	44.2	44.0	275.0	269.9	12	16	86.1	90.7	47.8	47.7	3.0	592
		45.9	45.9	273.2	268.3	12	26	84.2	89.1	46.1	45.8		
		47.7	47.8	271.3	266.8	12	36	82.2	87.4	44.3	43.9		
332	4.2	46.8	46.8	272.2	267.5	12	31	89.3	93.5	50.4	50.5	1.2	616
		48.6	48.7	270.4	266.0	12	41	87.5	91.9	48.6	48.6		
		50.4	50.6	268.7	264.6	12	51	85.6	90.3	46.8	46.7		
1243	4.9	44.2	43.7	278.2	273.0	12	41	85.1	89.7	47.7	47.5	3.1	607
		46.0	45.6	276.2	271.4	12	51	83.1	88.0	45.9	45.5		
		47.7	47.6	274.3	269.7	13	1	81.1	86.3	44.2	43.6		
332	4.2	51.8	52.2	267.3	263.4	12	59	92.2	95.6	55.6	55.9	3.4	644
		53.5	54.1	265.6	262.0	13	9	90.5	94.1	53.8	54.0		
		55.3	56.0	264.0	260.6	13	19	88.7	92.6	52.1	52.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-45	LAT-40	HRS	MIN	LAT-45	LAT-40	LAT-45	LAT-40		
1243	4.9	49.7	49.7	272.2	268.0	13	12	90.0	93.7	53.3	53.5	3.4	644
		51.4	51.6	270.4	266.5	13	22	88.2	92.2	51.5	51.5		
		53.2	53.5	268.7	265.0	13	32	86.3	90.6	49.8	49.6		
366	5.1	47.6	47.1	271.9	267.3	13	26	87.5	91.5	50.8	50.8	3.4	644
		48.8	49.0	270.1	265.8	13	36	85.6	89.9	49.1	48.9		
		50.6	50.9	268.4	264.3	13	46	83.7	88.3	47.3	47.0		
392	4.4	41.4	41.5	271.9	266.3	13	48	89.7	94.7	44.9	45.1	4.4	646
		43.2	43.4	270.1	264.8	13	58	87.9	93.2	43.2	43.2		
		44.9	45.3	268.4	263.4	14	8	86.0	91.7	41.4	41.3		
366	5.0	52.9	53.4	266.2	262.4	13	59	93.7	97.0	56.4	56.8	2.9	692
		54.6	55.3	264.5	261.0	14	9	92.0	95.5	54.6	54.9		
		56.4	57.1	262.9	259.6	14	19	90.2	94.0	52.8	53.0		
366	5.0	55.2	55.6	264.2	260.7	14	11	97.1	100.0	58.5	59.2	2.1	706
		56.7	57.5	262.6	259.4	14	21	95.4	98.6	56.7	57.4		
		58.5	59.4	260.9	258.7	14	31	93.7	97.2	55.0	55.5		
419	5.1	45.7	45.6	274.2	269.3	14	38	86.8	91.1	49.5	49.4	2.9	692
		47.5	47.5	272.3	267.7	14	48	84.9	89.5	47.7	47.5		
		49.3	49.4	270.5	266.2	14	58	83.0	87.8	46.0	45.6		
434	3.7	40.1	40.2	271.8	265.9	14	49	88.3	93.6	43.6	43.7	2.8	687
		41.9	42.1	270.0	264.5	14	59	86.5	92.1	41.9	41.8		
		43.7	44.0	268.3	263.1	15	9	84.6	90.5	40.1	39.9		
1305	5.5	42.1	41.6	279.2	273.7	14	59	82.8	87.7	45.8	45.4	2.9	692
		43.9	43.5	277.2	272.0	15	9	80.9	86.0	44.0	43.5		
		45.7	45.4	275.2	270.3	15	19	78.7	84.2	42.3	41.5		
1305	5.5	44.2	43.9	276.8	271.6	15	11	86.7	91.2	47.9	47.8	2.1	706
		46.0	45.8	274.8	270.0	15	21	84.8	89.6	46.2	45.9		
		47.8	47.7	272.9	268.4	15	31	82.8	88.0	44.4	44.0		
421	4.5	55.4	55.4	271.5	268.1	15	23	87.6	90.6	59.0	58.9	5.1	1517
		57.1	57.3	269.8	266.5	15	33	85.8	89.0	57.2	57.0		
		58.9	59.2	268.0	265.0	15	43	83.9	87.4	55.5	55.1		
1305	5.5	48.3	48.3	272.4	267.9	15	34	88.6	92.5	52.0	52.1	4.7	736
		50.1	50.2	270.6	266.4	15	44	86.8	91.0	50.3	50.2		
		51.8	52.1	268.8	264.9	15	54	84.9	89.4	48.5	48.3		
1301	4.9	56.4	55.8	277.7	274.3	15	45	82.0	84.9	60.0	59.5	5.1	1522
		58.1	57.8	275.8	272.7	15	55	80.1	83.2	58.3	57.6		
		59.9	59.7	273.9	271.0	16	5	78.1	81.4	56.6	55.7		
1300	5.2	58.0	57.5	277.8	274.7	16	1	82.8	85.5	61.8	61.3	3.2	762
		59.8	59.4	275.9	273.0	16	11	80.9	83.8	60.0	59.4		
		61.5	61.3	274.1	271.3	16	21	78.9	82.0	58.3	57.4		
457	2.8	56.2	55.6	279.2	275.8	16	12	88.7	83.6	59.8	59.2	3.3	762
		58.0	57.5	277.2	274.1	16	22	86.7	81.8	58.1	57.3		
		59.7	59.4	275.4	272.4	16	32	84.7	80.0	56.4	55.4		
471	2.8	55.9	56.1	270.1	266.7	16	51	92.2	95.1	59.4	59.7	3.9	806
		57.7	58.0	268.3	265.2	17	1	90.4	93.6	57.7	57.8		
		59.5	59.9	266.6	263.7	17	11	88.6	92.0	55.9	55.9		
1305	4.9	53.7	52.9	280.8	277.1	17	3	81.6	84.9	57.1	56.5	4.2	1552
		55.4	54.8	278.8	275.3	17	13	79.7	83.1	55.3	54.6		
		57.2	56.7	276.9	273.6	17	23	77.6	81.3	53.6	52.7		
506	4.4	41.5	41.9	268.3	262.7	17	13	94.1	95.0	45.1	45.7	4.7	1550
		43.3	43.8	266.6	261.3	17	23	92.4	93.7	43.4	43.8		
		45.0	45.7	264.9	260.0	17	33	90.7	92.3	41.6	41.9		
1345	4.9	57.5	57.1	276.5	273.3	17	25	84.3	87.1	61.2	60.8	3.0	819
		59.3	59.0	274.6	271.6	17	35	82.4	85.4	59.4	58.9		
		61.0	60.9	272.8	270.0	17	45	80.5	83.7	57.7	57.0		
510	5.1	54.1	53.3	280.6	277.0	17	36	81.4	84.5	57.7	57.1	3.8	812
		55.8	55.2	278.6	275.2	17	46	79.4	82.8	55.9	55.2		
		57.5	57.1	276.7	273.5	17	56	77.4	81.0	54.2	53.3		
1376	5.4	45.6	45.1	278.7	273.8	17	48	81.7	86.0	49.4	48.9	3.9	806
		47.4	47.0	276.7	272.1	17	58	79.7	84.2	47.6	46.9		
		49.2	48.9	274.9	272.4	18	8	77.6	82.4	45.9	45.0		
544	4.1	39.5	40.1	266.3	260.3	18	6	93.5	98.8	43.0	43.6	4.4	814
		41.3	42.0	264.7	259.1	18	16	91.8	97.5	41.3	41.7		
		43.0	43.9	263.1	257.9	18	26	90.1	96.1	39.5	39.8		
1389	5.3	40.9	41.4	267.4	261.6	18	22	94.7	99.7	44.4	45.0	4.6	832
		42.7	43.3	265.7	260.4	18	32	93.1	98.4	42.6	43.1		
		44.4	45.1	264.1	259.1	18	42	91.4	97.1	40.9	41.2		
548	2.9	56.4	55.5	281.5	278.1	18	42	82.3	85.2	59.7	59.2	3.5	866
		58.1	57.4	279.5	276.3	18	52	80.4	83.5	58.0	57.3		
		59.8	59.3	277.6	274.6	19	2	78.4	81.7	56.3	55.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-45 LAT-40	Z. D. LAT-45 LAT-40	LAT-45 LAT-40	LAT-45 LAT-40	HRS MIN	HRS MIN	LAT-45 LAT-40	LAT-45 LAT-40	Z. D. LAT-45 LAT-40	Z. D. LAT-45 LAT-40		
579	3.8	43.4	43.1	275.2	269.8	18	59	87.1	91.8	47.0	46.9	4.2	854
		45.1	45.1	273.2	268.3	19	9	85.2	90.2	45.2	45.0		
		46.9	47.0	271.4	266.7	19	19	83.3	88.6	43.5	43.1		
559	4.7	56.5	56.2	275.1	271.8	19	19	86.7	89.6	60.3	60.1	5.3	1621
		58.3	58.2	273.2	270.2	19	29	84.9	88.0	58.5	58.2		
		60.1	60.1	271.4	268.6	19	39	83.0	86.3	56.8	56.3		
1413	5.0	54.0	53.5	278.0	274.4	19	34	84.0	87.1	57.7	57.3	5.3	1621
		55.8	55.4	276.1	272.7	19	44	82.0	85.5	55.9	55.4		
		57.5	57.3	274.2	271.0	19	54	80.1	83.7	54.2	53.4		
1431	4.3	38.4	38.8	268.1	261.9	19	46	91.9	97.4	42.2	42.7	4.5	879
		40.2	40.7	266.4	260.6	19	56	90.2	96.0	40.5	40.8		
		41.9	42.6	264.8	259.4	20	6	88.4	94.6	38.7	38.8		
597	2.9	53.9	53.3	278.0	274.3	19	57	82.5	85.7	57.7	57.2	4.6	905
		55.6	55.2	276.0	272.6	20	7	80.5	83.9	55.9	55.3		
		57.4	57.1	274.2	271.0	20	17	78.5	82.2	54.2	53.4		
592	3.9	52.7	53.0	268.9	265.1	20	7	91.3	94.6	56.4	56.6	5.2	14
		54.5	54.9	267.1	263.6	20	17	89.6	93.1	54.6	54.7		
		56.3	56.8	265.5	262.2	20	27	87.8	91.6	52.9	52.8		
607	3.1	50.9	50.9	271.6	267.5	20	17	89.6	93.1	54.6	54.7	5.2	14
		52.6	52.8	269.8	266.0	20	27	87.8	91.6	52.9	52.8		
		54.4	54.7	268.0	264.5	20	37	85.9	90.0	51.1	50.9		
646	4.4	38.7	38.4	277.0	270.7	20	29	84.2	89.7	42.5	42.2	4.6	896
		40.5	40.3	275.0	269.1	20	39	82.2	88.0	40.7	40.3		
		42.3	42.2	273.1	267.6	20	49	80.1	86.3	39.0	38.4		
644	3.4	45.8	45.3	278.0	273.1	20	47	84.0	88.3	49.3	49.0	5.2	14
		47.6	47.2	276.0	271.4	20	57	82.1	86.7	47.6	47.1		
		49.3	49.1	274.1	269.8	21	7	80.0	84.9	45.8	45.2		
646	4.4	44.6	44.7	270.7	265.6	21	2	92.3	96.7	48.3	48.7	4.4	35
		46.3	46.6	268.9	264.2	21	12	90.6	95.3	46.5	46.8		
		48.1	48.5	267.2	262.8	21	22	88.8	93.8	44.7	44.8		
679	3.1	41.0	40.9	273.4	267.6	21	22	88.8	93.8	44.7	44.8	4.4	35
		42.7	42.8	271.6	266.1	21	32	87.0	92.3	43.0	42.9		
		44.5	44.7	269.8	264.7	21	42	85.1	90.8	41.2	41.0		
1457	4.3	54.4	54.5	270.3	266.7	21	37	88.8	91.9	58.1	58.1	4.2	71
		56.1	56.4	268.5	265.2	21	47	87.0	90.3	56.3	56.2		
		57.9	58.3	266.8	263.7	21	57	85.1	88.7	54.6	54.3		
679	3.1	47.0	47.4	267.3	262.7	21	56	94.2	98.3	50.4	51.0	4.7	1055
		48.7	49.3	265.7	261.4	22	6	92.6	96.9	48.6	49.1		
		50.5	51.2	264.0	260.0	22	16	90.8	95.5	46.9	47.2		
1487	3.3	43.9	43.6	276.5	271.3	22	7	84.4	89.0	47.7	47.4	5.4	61
		45.7	45.5	274.5	269.6	22	17	82.5	87.3	46.0	45.5		
		47.4	47.4	272.7	268.1	22	27	80.4	85.6	44.2	43.6		
692	2.9	49.7	49.7	272.9	268.7	22	17	88.2	91.9	53.2	53.2	5.4	83
		51.5	51.6	271.1	267.1	22	27	86.4	90.4	51.5	51.3		
		53.3	53.5	269.3	265.6	22	37	84.5	88.7	49.7	49.4		
692	2.9	53.3	53.5	269.3	265.6	22	37	91.5	94.8	56.9	57.2	4.2	1085
		55.0	55.4	267.6	264.1	22	47	89.8	93.2	55.1	55.3		
		56.8	57.3	265.9	262.7	22	57	88.0	91.7	53.4	53.3		
736	4.7	43.8	43.1	280.5	275.2	22	59	81.9	86.5	47.4	46.9	5.4	83
		45.5	45.0	278.4	273.5	23	0	79.9	84.8	45.7	45.0		
		47.3	46.9	276.4	271.8	23	10	77.8	83.0	44.0	43.1		
692	2.9	57.3	57.9	265.4	262.2	23	0	94.8	97.6	60.9	61.5	4.3	140
		59.1	59.8	263.7	260.8	23	10	93.1	96.1	59.2	59.6		
		60.9	61.7	262.1	259.4	23	20	91.4	94.6	57.4	57.7		
736	4.7	47.3	46.9	276.4	271.8	23	10	85.6	89.6	51.1	50.8	4.2	1085
		49.0	48.8	274.5	270.2	23	20	83.7	88.0	49.3	48.9		
		50.8	50.8	272.6	268.6	23	30	81.7	86.3	47.5	47.0		
736	4.7	51.3	51.3	272.1	268.1	23	33	89.1	92.6	55.1	55.2	4.3	140
		53.1	53.2	270.3	266.6	23	43	87.3	91.0	53.3	53.3		
		54.9	55.2	268.5	265.1	23	53	85.5	89.4	51.6	51.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-40 LAT-35	Z. D. LAT-40 LAT-35	LAT-40 LAT-35	LAT-40 LAT-35	HRS MIN	LAT-40 LAT-35	LAT-40 LAT-35	LAT-40 LAT-35	LAT-40 LAT-35	LAT-40 LAT-35		
779	4.3	44.5	44.5	273.2	268.1	0 8	87.0	91.4	48.5	48.4		4.3	140
		46.4	46.5	271.5	266.8	0 18	85.2	90.0	46.6	46.4			
		48.4	48.6	269.9	265.5	0 28	83.4	88.5	44.7	44.3			
762	3.3	57.5	56.9	277.9	274.7	0 19	84.9	87.7	61.4	61.1		4.0	172
		59.4	59.0	276.2	273.2	0 29	83.2	86.2	59.5	59.1			
		61.3	61.0	274.5	271.7	0 39	81.4	84.6	57.6	57.0			
1552	4.2	52.4	51.8	279.0	275.1	0 45	80.4	83.7	56.5	55.8		4.0	172
		54.3	53.8	277.2	273.6	0 55	78.5	82.1	54.6	53.8			
		56.2	55.9	275.4	272.1	1 5	76.6	80.4	52.8	51.8			
806	3.9	49.2	49.1	273.7	269.4	1 5	89.6	93.3	53.1	53.2		3.3	186
		51.1	51.1	272.0	268.0	1 15	87.9	91.9	51.2	51.2			
		53.0	53.2	270.4	266.6	1 25	86.2	90.5	49.3	49.2			
812	3.8	52.1	51.4	280.1	276.2	1 16	82.8	86.2	56.1	55.6		3.3	1144
		54.0	53.5	278.3	274.6	1 26	81.0	84.7	54.2	53.5			
		55.9	55.5	276.5	273.1	1 36	79.2	83.0	52.3	51.5			
806	3.9	54.0	54.2	269.6	265.9	1 30	91.4	94.5	58.0	58.2		3.9	222
		55.9	56.2	268.0	264.6	1 40	89.8	93.1	56.1	56.2			
		57.8	58.3	266.4	263.3	1 50	88.1	91.8	54.1	54.1			
819	3.0	56.4	56.0	276.8	273.5	1 44	83.6	86.5	60.3	59.8		3.8	226
		58.4	58.0	275.1	272.0	1 54	81.9	85.0	58.4	57.8			
		60.3	60.1	273.4	270.5	2 4	80.1	83.4	56.5	55.8			
949	5.3	47.1	46.6	278.4	273.7	1 57	80.6	84.6	51.1	50.4		2.7	207
		49.0	48.6	276.6	272.2	2 7	78.7	83.0	49.2	48.4			
		50.9	50.7	274.8	270.7	2 17	76.7	81.3	47.3	46.4			
873	3.8	44.6	44.0	280.1	275.0	2 20	83.0	87.4	48.4	48.0		3.9	222
		46.5	46.0	278.2	273.5	2 30	81.1	85.9	46.5	46.0			
		48.4	48.0	276.4	271.9	2 40	79.2	84.3	44.6	43.9			
866	3.5	56.1	55.6	277.6	274.2	2 49	85.3	88.2	59.8	59.6		4.1	271
		58.0	57.7	275.8	272.7	2 59	83.6	86.8	57.9	57.5			
		59.9	59.7	274.1	271.2	3 9	81.8	85.2	56.0	55.5			
896	4.6	43.8	44.1	269.0	263.8	3 15	93.5	98.0	47.6	48.1		3.7	1183
		45.7	46.2	267.4	262.6	3 25	92.0	96.8	45.7	46.0			
		47.6	48.2	265.9	261.5	3 35	90.4	95.6	43.7	44.0			
873	3.8	57.6	57.9	268.4	265.2	3 28	90.7	93.4	61.5	61.6		4.6	1212
		59.5	59.9	266.8	263.9	3 38	89.0	92.0	59.5	59.6			
		61.4	61.9	265.3	262.6	3 48	87.4	90.6	57.6	57.5			
905	4.6	53.3	52.7	277.9	274.2	3 48	81.4	84.6	57.3	56.7		5.1	1202
		55.2	54.8	276.1	272.6	3 58	79.6	83.0	55.4	54.7			
		57.1	56.8	274.4	271.2	4 8	77.7	81.4	53.5	52.6			
35	4.4	38.7	38.8	271.2	265.0	4 1	91.6	97.0	42.4	42.8		2.4	283
		40.6	40.9	269.6	263.8	4 11	89.0	95.8	40.5	40.7			
		42.5	42.9	268.0	262.6	4 21	87.3	94.6	38.6	38.7			
22	2.2	51.6	51.0	278.5	274.5	4 21	81.5	85.0	55.5	54.9		5.1	311
		53.5	53.1	276.7	273.0	4 31	79.7	83.4	53.6	52.9			
		55.4	55.1	275.0	271.5	4 41	77.8	81.7	51.7	50.8			
61	5.4	38.8	38.2	279.1	272.9	4 37	84.1	89.5	42.6	42.3		3.5	1204
		40.7	40.3	277.2	271.4	4 47	82.2	88.0	40.7	40.3			
		42.6	42.3	275.4	269.9	4 57	80.2	86.5	38.8	38.2			
61	5.4	40.7	40.3	277.2	271.4	4 47	84.9	90.0	44.5	44.2		2.9	308
		42.6	42.3	275.4	269.9	4 57	83.0	88.5	42.6	42.2			
		44.5	44.4	273.6	268.5	5 7	81.1	87.0	40.7	40.1			
1018	5.5	56.2	56.4	268.7	265.4	5 1	93.2	96.1	60.0	60.4		5.2	1247
		58.1	58.5	267.2	264.1	5 11	91.6	94.7	58.0	58.3			
		60.0	60.5	265.6	262.8	5 21	90.1	93.4	56.1	56.3			
1055	4.7	41.0	41.3	269.3	263.6	5 19	90.8	95.8	44.8	45.1		4.2	332
		42.9	43.3	267.8	262.5	5 29	89.2	94.6	42.9	43.0			
		44.8	45.4	266.3	261.3	5 39	87.5	93.3	41.0	41.0			
59	3.7	55.2	54.6	278.3	274.8	5 34	82.6	85.6	59.1	58.5		5.0	364
		57.1	56.7	276.5	273.3	5 44	80.8	84.1	57.2	56.5			
		59.0	58.7	274.8	271.8	5 54	79.0	82.5	55.3	54.5			
1055	4.7	46.0	46.6	265.4	260.7	5 45	95.1	99.2	50.1	50.7		5.0	366
		47.9	48.6	264.0	259.5	5 55	93.6	98.0	48.1	48.6			
		49.8	50.6	262.6	258.4	6 5	92.1	96.8	46.2	46.6			
102	4.8	44.6	43.9	280.5	275.4	6 1	83.3	87.7	48.5	48.1		5.2	1247
		46.5	45.9	278.6	273.8	6 11	81.4	86.2	46.6	46.1			
		48.4	48.0	276.7	272.3	6 21	79.5	84.6	44.7	44.0			
102	4.8	47.2	46.8	277.8	273.2	6 15	82.4	86.5	51.2	50.7		5.2	373
		49.1	48.8	276.0	271.7	6 25	80.6	84.9	49.3	48.7			
		51.0	50.9	274.3	270.2	6 35	78.7	83.3	47.4	46.6			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-40	LAT-35	HRS	MIN	LAT-40	LAT-35	Z. D.	Z. D.		
1085	4.2	47.8	47.7	273.0	268.5	6	37	90.3	94.2	51.8	52.0	5.3	399
		49.7	49.8	271.4	267.1	6	47	88.7	92.9	49.8	49.9		
		51.6	51.8	269.7	265.8	6	57	87.0	91.5	47.9	47.9		
1085	4.2	51.6	51.8	269.7	265.8	6	57	92.1	95.5	55.6	56.0	4.5	421
		53.5	53.8	268.2	264.5	7	7	90.5	94.2	53.7	53.9		
		55.4	55.9	266.6	263.2	7	17	88.9	92.9	51.8	51.9		
140	4.3	47.5	47.4	273.9	269.3	7	19	88.6	92.6	51.4	51.5	4.5	421
		49.4	49.4	272.2	267.9	7	29	86.9	91.2	49.5	49.4		
		51.4	51.5	270.6	266.6	7	39	85.2	89.8	47.6	47.4		
1100	5.3	56.1	55.8	275.1	271.8	7	36	87.5	90.4	59.9	59.9	5.2	1305
		58.1	57.9	273.4	270.3	7	46	85.8	89.0	58.0	57.8		
		60.0	59.9	271.8	268.9	7	56	84.1	87.5	56.1	55.8		
140	4.3	53.3	53.5	268.9	265.2	7	49	92.9	96.1	57.0	57.4	3.2	453
		55.2	55.6	267.4	263.9	7	59	91.3	94.8	55.1	55.3		
		57.1	57.6	265.9	262.7	8	9	89.8	93.5	53.2	53.3		
140	4.3	55.4	55.8	267.2	263.8	8	0	95.7	98.6	59.1	59.7	2.8	471
		57.3	57.8	265.7	262.5	8	10	94.2	97.4	57.2	57.7		
		59.2	59.8	264.2	261.3	8	20	92.6	96.1	55.3	55.6		
204	3.0	51.9	51.8	274.0	270.0	9	16	85.6	89.0	55.9	55.7	4.8	1345
		53.9	53.8	272.3	268.6	9	26	83.9	87.6	54.0	53.6		
		55.8	55.9	270.6	267.2	9	36	82.1	86.0	52.1	51.6		
222	3.9	49.8	49.4	275.8	271.5	9	28	83.6	87.3	53.6	53.2	4.8	1345
		51.7	51.5	274.0	270.1	9	38	81.8	85.7	51.7	51.1		
		53.6	53.5	272.3	268.6	9	48	79.9	84.1	49.8	49.1		
222	3.9	52.8	52.7	273.0	269.2	9	44	86.1	89.4	56.6	56.4	5.1	510
		54.7	54.8	271.3	267.8	9	54	84.3	87.9	54.7	54.4		
		56.7	56.9	269.7	266.4	10	4	82.6	86.4	52.8	52.3		
270	3.1	40.7	40.2	279.6	273.8	10	1	82.9	88.0	44.6	44.2	3.3	495
		42.6	42.2	277.7	272.2	10	11	81.1	86.5	42.7	42.1		
		44.5	44.3	275.8	270.7	10	21	79.1	84.9	40.8	40.1		
268	1.6	43.3	43.7	268.3	263.0	10	24	91.2	95.8	47.3	47.7	3.5	519
		45.2	45.7	266.7	261.8	10	34	89.6	94.5	45.4	45.6		
		47.1	47.7	265.3	260.7	10	44	88.0	93.2	43.5	43.6		
283	2.4	40.7	41.0	269.8	264.0	10	37	89.1	94.2	44.9	45.0	3.5	519
		42.7	43.0	268.2	262.8	10	47	87.5	92.8	42.9	43.0		
		44.6	45.1	266.7	261.7	10	57	85.7	91.5	41.0	40.9		
273	2.0	47.3	47.6	269.2	264.6	10	48	93.2	97.2	51.0	51.4	5.4	1385
		49.2	49.6	267.6	263.3	10	58	91.7	96.0	49.1	49.4		
		51.1	51.6	266.1	262.1	11	8	90.1	94.7	47.1	47.4		
1210	4.9	38.8	39.1	269.6	263.4	11	3	92.0	97.4	42.6	43.1	5.0	532
		40.7	41.1	268.0	262.3	11	13	90.4	96.2	40.7	41.0		
		42.6	43.2	266.5	261.2	11	23	88.8	95.0	38.8	39.0		
288	4.5	50.0	49.9	273.4	269.2	11	16	86.1	89.7	53.8	53.6	4.7	559
		51.9	51.9	271.7	267.8	11	26	84.3	88.3	51.9	51.6		
		53.8	54.0	270.1	266.4	11	36	82.6	86.8	50.0	49.5		
288	4.5	52.9	52.9	270.9	267.1	11	31	88.4	91.7	56.7	56.7	5.0	1413
		54.8	55.0	269.3	265.8	11	41	86.8	90.3	54.7	54.6		
		56.7	57.0	267.7	264.4	11	51	85.1	88.9	52.8	52.6		
288	4.5	55.0	55.2	269.1	265.6	11	42	90.6	93.6	59.0	59.2	2.9	597
		56.9	57.2	267.5	264.3	11	52	89.0	92.2	57.1	57.1		
		58.8	59.3	266.0	263.0	12	2	87.3	90.8	55.1	55.1		
308	2.9	49.9	50.1	270.3	266.1	11	55	90.5	94.1	53.9	54.1	2.5	594
		51.9	52.1	268.7	264.8	12	5	88.8	92.8	52.0	52.1		
		53.8	54.2	267.1	263.5	12	15	87.2	91.4	50.1	50.0		
332	4.2	43.8	44.0	270.0	264.8	12	15	90.8	95.3	47.9	48.2	3.0	592
		45.7	46.0	268.5	263.6	12	25	89.2	94.0	46.0	46.1		
		47.6	48.1	266.9	262.4	12	35	87.6	92.7	44.1	44.1		
332	4.2	46.6	47.0	267.7	263.0	12	30	93.6	97.6	50.7	51.2	1.2	616
		48.5	49.1	266.2	261.8	12	40	92.1	96.4	48.8	49.1		
		50.5	51.1	264.7	260.6	12	50	90.5	95.2	46.9	47.1		
1243	4.9	43.7	43.7	273.0	267.8	12	41	89.7	94.2	47.5	47.6	3.1	607
		45.6	45.7	271.4	266.5	12	51	88.0	92.9	45.5	45.6		
		47.6	47.8	269.7	265.2	13	1	86.3	91.6	43.6	43.5		
332	4.2	52.0	52.7	263.5	259.7	12	58	95.8	99.1	56.1	56.8	3.4	644
		53.9	54.7	262.1	258.6	13	8	94.3	97.8	54.2	54.8		
		55.8	56.7	260.7	257.4	13	18	92.8	96.6	52.3	52.7		
1243	4.9	49.7	50.0	268.0	263.8	13	12	93.7	97.3	53.5	53.9	3.4	644
		51.6	52.1	266.5	262.6	13	22	92.2	96.1	51.5	51.9		
		53.5	54.1	265.0	261.3	13	32	90.6	94.8	49.6	49.9		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-40	LAT-35	LAT-40	LAT-35	HRS MIN	LAT-40	LAT-35	LAT-40	LAT-35	
366	5.0	46.9	47.3	267.4	262.8	13	25	91.7	85.7	51.0	51.3	3.4	644
		48.8	49.3	265.9	261.6	13	35	90.1	94.4	49.1	49.3		
		50.7	51.4	264.4	260.4	13	45	88.5	93.1	47.1	47.2		
392	4.4	41.3	41.9	266.4	260.8	13	47	94.8	99.7	45.3	45.9	4.4	646
		43.2	43.9	265.0	259.7	13	57	93.3	98.6	43.4	43.9		
		45.1	45.9	263.6	258.7	14	7	91.8	97.4	41.5	41.9		
419	5.1	39.3	39.1	274.8	268.7	14	5	85.1	90.4	43.3	43.1	3.4	644
		41.2	41.2	273.1	267.3	14	15	83.2	89.9	41.4	41.1		
		43.1	43.2	271.4	266.0	14	25	81.3	87.4	39.5	39.0		
389	4.1	55.5	55.1	276.9	273.5	14	20	83.4	86.4	59.4	58.9	4.7	696
		57.4	57.1	275.2	272.0	14	30	81.6	84.8	57.5	56.9		
		59.3	59.2	273.5	270.5	14	40	79.8	83.3	55.6	54.8		
421	4.5	46.0	45.7	276.3	271.4	14	34	84.6	88.8	49.9	49.6	4.0	682
		47.9	47.7	274.5	270.0	14	44	82.8	87.4	48.0	47.5		
		49.8	49.8	272.8	268.6	14	54	81.0	85.8	46.1	45.5		
419	5.1	46.9	47.3	268.2	263.5	14	45	94.5	99.5	50.6	51.2	3.3	1487
		48.8	49.3	266.6	262.3	14	55	93.0	97.3	48.7	49.1		
		50.7	51.3	265.2	261.1	15	5	91.4	96.1	46.8	47.1		
421	4.5	50.2	50.2	272.5	268.3	14	56	88.4	92.0	54.0	54.0	3.6	710
		52.1	52.2	270.8	266.9	15	6	86.7	90.7	52.1	52.0		
		54.0	54.3	269.2	265.6	15	16	85.0	89.2	50.2	49.9		
1325	5.5	43.9	44.0	271.6	266.4	15	11	91.2	95.7	47.8	48.1	2.1	706
		45.8	46.0	270.9	265.1	15	21	89.6	94.4	45.9	46.1		
		47.7	48.0	268.4	263.9	15	31	88.0	93.1	44.0	44.0		
421	4.5	55.2	55.5	268.2	264.8	15	22	90.8	93.8	59.1	59.3	5.1	1517
		57.1	57.5	266.7	263.5	15	32	89.2	92.4	57.2	57.3		
		59.0	59.6	265.2	262.2	15	42	87.5	91.0	55.3	55.2		
431	4.1	57.7	57.6	273.6	270.5	15	33	86.9	89.6	61.8	61.6	5.1	1522
		59.7	59.6	272.0	269.0	15	43	85.3	88.2	59.9	59.6		
		61.6	61.7	270.4	267.6	15	53	83.5	86.7	58.0	57.5		
471	2.9	43.3	42.8	277.9	272.6	15	44	82.1	86.7	47.2	46.7	3.0	720
		45.2	44.9	276.1	271.1	15	54	80.2	85.2	45.3	44.7		
		47.1	46.9	274.3	269.7	16	4	78.2	83.5	43.4	42.6		
457	2.9	53.1	52.5	278.1	274.3	15	59	82.5	85.8	56.8	56.3	5.1	1522
		55.0	54.6	276.3	272.8	16	9	80.7	84.2	54.9	54.3		
		56.9	56.6	274.6	271.3	16	19	78.8	82.6	53.0	52.2		
457	2.8	55.4	55.0	276.0	272.5	16	11	83.8	86.8	59.4	58.9	3.3	762
		57.3	57.0	274.3	271.0	16	21	82.0	85.2	57.4	56.9		
		59.2	59.1	272.6	269.6	16	31	80.2	83.7	55.6	54.9		
471	2.9	55.9	56.3	266.8	263.5	16	50	95.2	98.1	59.9	60.5	3.9	806
		57.8	58.3	265.3	262.2	17	0	93.7	96.8	58.0	58.5		
		59.7	60.4	263.8	261.0	17	10	92.2	95.5	56.1	56.5		
1345	4.8	52.7	52.2	277.3	273.4	17	2	85.0	88.3	56.7	56.4	4.2	1552
		54.6	54.3	275.5	271.9	17	12	83.3	86.8	54.8	54.4		
		56.5	56.3	273.8	270.5	17	22	81.5	85.3	52.9	52.3		
495	3.3	51.7	51.8	279.6	266.7	17	12	91.9	95.3	55.7	56.0	3.9	806
		53.6	53.9	269.0	265.4	17	22	90.3	93.9	53.8	54.0		
		55.5	55.9	267.5	264.1	17	32	88.7	92.6	51.9	52.0		
1345	4.9	56.9	56.7	273.5	270.2	17	24	87.2	90.0	61.0	60.9	3.0	819
		58.8	58.8	271.8	268.8	17	34	85.6	88.6	59.1	58.8		
		60.7	60.8	270.2	267.4	17	44	83.8	87.1	57.2	56.8		
510	5.1	54.0	53.7	276.3	272.6	17	40	84.5	87.7	57.9	57.6	3.0	819
		56.0	55.7	274.5	271.1	17	50	82.8	86.2	56.0	55.6		
		57.9	57.8	272.9	269.7	18	0	81.0	84.6	54.1	53.5		
556	3.4	38.7	38.2	279.1	272.8	17	55	84.3	89.8	42.3	42.1	4.6	791
		40.6	40.2	277.2	271.3	18	5	92.5	98.4	40.4	40.0		
		42.5	42.3	275.3	269.9	18	15	89.5	86.8	38.5	38.0		
556	3.4	41.2	40.8	276.6	270.9	18	8	82.4	87.4	45.0	44.6	3.9	806
		43.1	42.9	274.8	269.4	18	18	80.5	85.8	43.1	42.5		
		45.0	44.9	273.0	268.0	18	28	78.5	84.2	41.3	40.5		
548	2.9	55.5	54.9	278.1	274.7	18	42	85.2	88.2	59.2	58.9	3.5	866
		57.4	57.0	276.3	273.1	18	52	83.5	86.7	57.3	56.9		
		59.3	59.0	274.6	271.6	19	2	81.7	85.2	55.4	54.8		
579	3.8	43.1	43.4	269.8	264.5	18	59	91.8	96.4	46.9	47.3	4.2	854
		45.1	45.4	268.3	263.3	19	9	90.2	95.2	45.0	45.2		
		47.0	47.5	266.7	262.1	19	19	88.6	93.9	43.1	43.2		
504	2.5	43.5	43.0	279.0	273.7	19	9	81.8	86.4	47.3	46.8	5.3	849
		45.4	45.0	277.1	272.1	19	19	79.9	84.9	45.5	44.8		
		47.3	47.1	275.3	270.7	19	29	77.9	83.2	43.6	42.8		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-40	LAT-35	LAT-40	LAT-35	HRS	MIN	LAT-40	LAT-35	Z. D. LAT-40	LAT-35		
559	4.7	56.2	56.2	271.8	268.4	19	19	89.6	92.5	60.1	60.2	5.3	1621
		58.2	58.3	270.2	267.1	19	29	88.0	91.1	58.2	58.2		
		60.1	60.3	268.6	265.7	19	39	86.3	89.6	56.3	56.1		
594	2.5	48.3	48.1	274.4	269.9	19	34	85.3	89.2	52.1	51.9	4.2	1612
		50.2	50.2	272.7	268.5	19	44	83.6	87.8	50.2	49.9		
		52.1	52.2	271.0	267.2	19	54	81.8	86.2	48.3	47.8		
1413	5.0	55.6	55.5	272.5	269.1	19	45	87.7	90.6	59.5	59.4	4.6	905
		57.5	57.6	270.8	267.7	19	55	86.0	89.2	57.5	57.3		
		59.4	59.6	269.2	266.3	20	5	84.3	87.7	55.6	55.3		
597	2.9	53.3	53.1	274.3	270.6	19	57	85.7	88.9	57.2	56.9	4.6	905
		55.2	55.2	272.6	269.1	20	7	83.9	87.4	55.3	54.9		
		57.1	57.2	271.0	267.7	20	17	82.2	85.9	53.4	52.8		
597	2.9	57.0	57.0	271.1	267.9	20	16	89.7	92.5	60.8	60.9	2.2	22
		58.9	59.0	269.5	266.5	20	26	88.1	91.1	58.9	58.8		
		60.8	61.1	267.9	265.1	20	36	86.4	89.7	56.9	56.8		
646	4.4	38.4	38.6	270.7	264.4	20	29	89.7	95.2	42.2	42.4	4.6	896
		40.3	40.6	269.1	263.3	20	39	88.0	93.9	40.3	40.4		
		42.2	42.7	267.6	262.1	20	49	86.3	92.6	38.4	38.4		
644	3.4	45.1	45.1	273.3	268.3	20	46	88.5	92.8	49.2	49.2	5.2	14
		47.0	47.1	271.6	267.0	20	56	86.8	91.5	47.3	47.2		
		49.0	49.1	270.0	265.6	21	6	85.1	90.1	45.4	45.2		
1457	4.3	47.2	47.2	272.8	268.1	20	59	87.1	91.1	51.2	51.1	5.5	1018
		49.1	49.2	271.1	266.8	21	9	85.3	89.7	49.3	49.1		
		51.0	51.3	269.5	265.5	21	19	83.6	88.2	47.4	47.0		
679	3.1	40.9	41.4	267.6	261.9	21	22	93.8	98.8	44.8	45.4	4.4	35
		42.8	43.4	266.1	260.8	21	32	92.3	97.7	42.9	43.4		
		44.7	45.4	264.7	259.8	21	42	90.8	96.5	41.0	41.3		
1457	4.3	54.3	54.7	266.8	263.3	21	36	92.1	95.1	58.3	58.6	4.2	71
		56.2	56.8	265.3	262.0	21	46	90.5	93.8	56.4	56.6		
		58.1	58.8	263.8	260.8	21	56	88.9	92.4	54.5	54.5		
692	2.9	45.7	45.7	272.1	267.2	21	56	90.8	95.0	49.5	49.8	5.4	61
		47.6	47.7	270.4	265.9	22	6	89.2	93.7	47.6	47.7		
		49.5	49.8	268.8	264.6	22	16	87.5	92.4	45.7	45.7		
1487	3.3	43.6	43.7	271.3	266.0	22	7	89.0	93.6	47.4	47.5	5.4	61
		45.5	45.7	269.6	264.7	22	17	87.3	92.2	45.5	45.5		
		47.4	47.8	268.1	263.5	22	27	85.6	90.9	43.6	43.4		
696	4.7	56.3	55.6	279.5	276.1	22	20	89.9	93.7	60.1	59.5	4.9	1066
		58.2	57.7	277.7	274.6	22	30	79.1	82.2	58.3	57.4		
		60.1	59.7	275.9	273.0	22	40	77.2	80.5	56.4	55.4		
692	2.9	53.3	53.8	265.8	262.1	22	36	94.9	98.1	57.4	57.9	4.2	1085
		55.2	55.9	264.3	260.9	22	46	93.4	96.8	55.4	55.9		
		57.1	57.9	262.8	259.7	22	56	91.9	95.5	53.5	53.9		
706	2.1	50.5	51.0	266.7	262.6	22	51	92.6	96.2	54.5	54.9	4.2	1085
		52.4	53.0	265.2	261.4	23	1	91.1	94.9	52.6	52.8		
		54.3	55.0	263.7	260.2	23	11	89.5	93.6	50.7	50.8		
736	4.7	46.9	47.0	271.8	267.1	23	10	89.6	93.7	50.8	51.0	4.2	1085
		48.8	49.0	270.2	265.8	23	20	88.0	92.3	48.9	48.9		
		50.8	51.1	268.6	264.5	23	30	86.3	91.0	47.0	46.9		
736	4.7	51.3	51.7	268.1	264.1	23	33	92.6	96.1	55.2	55.6	4.3	140
		53.2	53.7	266.6	262.9	23	43	91.0	94.8	53.3	53.5		
		55.2	55.7	265.1	261.6	23	53	89.4	93.4	51.3	51.5		
779	4.3	40.1	39.8	277.4	271.4	23	45	83.6	88.8	44.2	43.8	4.2	1085
		42.0	41.8	275.5	270.0	23	55	81.8	87.3	42.3	41.8		
		43.9	43.8	273.7	268.5	24	5	79.8	85.7	40.4	39.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		% D. LAT-35	LAT-30	LAT-35	LAT-30	HRS	MIN	LAT-35	LAT-30	% D. LAT-35	LAT-30		
762	3.3	53.1	52.6	277.8	274.0	0	0	83.7	86.9	57.2	56.8	3.2	149
		55.1	54.7	276.1	272.6	0	10	82.1	85.6	55.2	54.6		
		57.1	56.9	274.6	271.3	0	20	80.4	84.2	53.2	52.5		
762	3.3	56.9	56.7	274.7	271.5	0	19	87.7	90.4	61.1	61.0	4.0	172
		59.0	58.8	273.2	270.2	0	29	86.2	89.2	59.1	58.9		
		61.0	61.0	271.7	269.0	0	39	84.6	87.9	57.0	56.7		
1552	4.2	51.6	51.3	275.3	271.3	0	44	83.8	87.2	56.0	55.6	4.0	172
		53.6	53.4	273.7	270.0	0	54	82.2	85.9	54.0	53.5		
		55.7	55.6	272.2	268.8	1	4	80.6	84.5	52.0	51.3		
812	3.8	48.4	47.8	278.7	274.2	1	1	81.1	84.9	52.6	52.0	4.0	172
		50.4	50.0	277.0	272.9	1	11	79.4	83.5	50.5	49.8		
		52.4	52.1	275.4	271.6	1	21	77.6	82.0	48.5	47.7		
1594	5.4	39.5	39.0	278.1	272.0	1	11	83.7	89.0	43.7	43.4	5.3	161
		41.5	41.2	276.3	270.7	1	21	82.0	87.7	41.6	41.2		
		43.5	43.4	274.7	269.4	1	31	80.2	86.3	39.6	39.0		
806	3.9	53.2	53.6	266.6	262.9	1	25	95.9	99.0	57.1	57.8	3.8	217
		55.2	55.8	265.3	261.9	1	35	94.6	98.0	55.1	55.6		
		57.3	57.9	264.0	260.8	1	45	93.2	97.0	53.0	53.5		
812	3.9	55.3	55.2	273.3	269.8	1	35	87.1	90.0	59.4	59.3	3.7	219
		57.3	57.3	271.8	268.6	1	45	85.5	88.8	57.3	57.1		
		59.4	59.5	270.3	267.4	1	55	84.0	87.5	55.3	54.9		
1584	5.4	46.4	46.4	272.5	267.7	1	45	89.1	93.2	50.5	50.6	3.0	204
		48.4	48.5	271.0	266.6	1	55	87.6	92.0	48.4	48.4		
		50.5	50.7	269.6	265.5	2	5	86.1	90.8	46.4	46.3		
849	5.3	46.4	46.3	273.9	269.1	1	56	84.8	88.9	50.6	50.3	2.7	207
		48.4	48.4	272.4	267.9	2	6	83.2	87.6	48.6	48.2		
		50.5	50.6	270.9	266.8	2	16	81.5	86.2	46.6	46.0		
873	3.8	41.5	41.1	277.0	271.4	2	8	85.6	90.5	45.8	45.6	3.0	204
		43.5	43.3	275.4	270.1	2	18	84.0	89.2	43.7	43.4		
		45.6	45.5	273.8	268.9	2	28	82.3	87.9	41.7	41.3		
873	3.8	44.0	43.7	275.0	269.8	2	20	87.4	91.9	48.0	48.0	3.9	222
		46.0	45.9	273.5	268.6	2	30	85.9	90.7	46.0	45.8		
		48.0	48.1	271.9	267.4	2	40	84.3	89.5	43.9	43.6		
861	4.2	56.6	56.2	276.6	273.3	2	43	84.2	87.0	60.8	60.4	4.3	266
		58.7	58.3	275.1	272.0	2	53	82.6	85.7	58.7	58.2		
		60.7	60.5	273.5	270.7	3	3	81.0	84.3	56.7	56.1		
1621	5.3	45.0	44.5	278.0	273.9	2	53	83.8	88.1	49.1	48.8	2.0	243
		47.1	46.7	277.2	272.5	3	3	82.1	86.8	47.1	46.6		
		49.1	48.8	275.6	271.2	3	13	80.4	85.4	45.1	44.5		
1621	5.3	47.7	47.3	276.7	272.1	3	6	83.9	87.9	51.7	51.4	1.6	257
		49.7	49.5	275.1	270.8	3	16	82.3	86.5	49.7	49.2		
		51.8	51.6	273.5	269.6	3	26	80.6	85.1	47.7	47.0		
975	4.6	48.1	47.6	277.9	273.4	3	25	82.7	86.6	52.2	51.7	4.1	271
		50.1	49.7	276.2	272.0	3	35	81.0	85.2	50.2	49.6		
		52.1	51.9	274.6	270.7	3	45	79.3	83.8	48.2	47.4		
14	5.2	41.7	41.8	272.4	266.8	3	36	90.3	95.2	45.8	46.0	3.1	279
		43.8	43.9	270.9	265.7	3	46	88.9	94.1	43.7	43.9		
		45.8	46.1	269.5	264.6	3	56	87.4	93.0	41.7	41.7		
905	4.6	52.5	52.2	274.3	270.5	3	47	84.8	88.0	56.9	56.6	5.1	1202
		54.6	54.5	272.8	269.2	3	57	83.2	86.7	54.9	54.4		
		56.6	56.7	271.3	268.0	4	7	81.5	85.4	52.8	52.3		
905	4.6	55.2	55.1	272.3	268.9	4	0	88.1	91.1	59.2	59.2	5.1	311
		57.2	57.2	270.9	267.7	4	10	86.7	89.9	57.1	57.0		
		59.3	59.5	269.4	266.5	4	20	85.1	88.6	55.1	54.8		
22	3.2	50.8	50.6	274.7	270.6	4	20	85.1	88.6	55.1	54.8	5.1	311
		52.9	52.7	273.1	269.3	4	30	83.5	87.3	53.1	52.7		
		54.9	54.9	271.6	268.1	4	40	81.9	86.0	51.0	50.5		
61	5.4	38.2	38.3	272.9	266.5	4	37	89.5	95.0	42.3	42.5	3.5	1204
		40.3	40.4	271.4	265.5	4	47	88.0	93.9	40.3	40.3		
		42.3	42.6	269.9	264.4	4	57	86.5	92.8	38.2	38.2		
61	5.4	40.3	40.4	271.4	265.5	4	47	90.0	95.1	44.2	44.5	2.9	308
		42.3	42.6	269.9	264.4	4	57	88.5	94.0	42.2	42.3		
		44.4	44.7	268.5	263.4	5	7	87.0	92.9	40.1	40.1		
1018	5.5	56.2	56.8	265.5	262.2	5	0	96.2	99.0	60.6	61.2	5.2	1247
		58.3	58.9	264.2	261.2	5	10	94.9	97.9	58.5	59.1		
		60.3	61.1	262.9	260.1	5	20	93.5	96.8	56.5	56.9		
1043	5.1	52.1	52.4	268.4	264.6	5	21	93.4	96.7	56.3	56.7	5.2	1247
		54.1	54.5	267.1	263.5	5	31	92.0	95.6	54.2	54.6		
		56.2	56.7	265.7	262.4	5	41	90.6	94.5	52.2	52.4		

CAT NO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CAT NO
		Z. D. LAT-35	LAT-30	LAT-35	LAT-30	HRS	MIN	LAT-35	LAT-30	Z. D. LAT-35	LAT-30		
59	3.7	54.4	54.1	274.9	271.4	5	33	85.8	88.8	58.7	58.5	5.0	364
		56.5	56.3	273.4	270.1	5	43	84.2	87.5	56.7	56.3		
		58.5	58.5	271.9	268.8	5	53	82.6	86.2	54.7	54.2		
71	4.2	51.8	52.1	269.4	265.5	5	49	90.3	93.7	56.0	56.2	5.2	373
		53.9	54.2	268.0	264.4	5	59	88.9	92.5	54.0	54.0		
		55.9	56.4	266.6	263.3	6	9	87.4	91.3	51.9	51.9		
102	4.8	43.9	43.7	275.4	270.2	6	1	87.7	92.2	48.1	48.1	5.2	1247
		45.9	45.8	273.8	269.0	6	11	86.2	91.0	46.1	45.9		
		48.0	48.0	272.3	267.8	6	21	84.6	89.8	44.0	43.8		
97	4.4	52.5	51.8	279.6	275.7	6	18	81.5	84.8	56.8	56.2	3.8	381
		54.5	54.0	277.9	274.3	6	28	79.8	83.4	54.8	54.1		
		56.6	56.1	276.3	273.0	6	38	78.1	81.9	52.8	51.9		
1099	4.3	42.0	41.7	275.9	270.3	6	36	83.1	87.9	46.4	46.0	5.2	373
		44.1	43.9	274.3	269.1	6	46	81.4	86.5	44.4	43.9		
		46.1	46.1	272.7	267.9	6	56	79.6	85.1	42.4	41.7		
102	4.8	53.5	53.8	268.4	264.7	6	48	90.4	93.6	57.6	57.8	4.2	1283
		55.6	56.0	267.0	263.6	6	58	89.0	92.4	55.5	55.6		
		57.6	58.1	265.7	262.5	7	8	87.5	91.2	53.5	53.4		
1100	5.3	49.3	48.9	276.7	272.4	7	4	84.3	88.0	53.3	53.0	3.3	410
		51.3	51.1	275.1	271.1	7	14	82.7	86.7	51.3	50.8		
		53.4	53.2	273.6	269.8	7	24	81.0	85.3	49.3	48.7		
140	4.3	47.4	47.6	269.3	264.7	7	19	92.6	96.5	51.5	51.9	4.5	421
		49.4	49.8	267.9	263.7	7	29	91.2	95.5	49.4	49.7		
		51.5	52.0	266.6	262.6	7	39	89.8	94.4	47.4	47.6		
161	5.3	44.4	44.1	275.7	271.6	7	32	83.7	88.2	48.6	48.2	4.2	1283
		46.4	46.3	274.1	269.3	7	42	82.1	86.8	46.6	46.1		
		48.5	48.4	272.5	268.1	7	52	80.3	85.4	44.5	43.9		
140	4.3	53.3	53.9	265.4	261.7	7	48	96.3	99.4	57.6	58.3	3.2	453
		55.4	56.0	264.1	260.7	7	58	95.0	98.3	55.5	56.1		
		57.4	58.2	262.8	259.7	8	8	93.6	97.3	53.5	54.0		
204	3.0	42.0	41.6	277.5	271.9	8	28	81.9	86.7	46.3	45.8	4.9	1301
		44.0	43.7	275.8	270.6	8	38	80.2	85.3	44.3	43.7		
		46.0	45.9	274.2	269.4	8	48	78.3	83.9	42.3	41.5		
222	3.9	39.7	39.1	279.4	273.3	8	40	79.8	85.0	43.9	43.2	4.9	1301
		41.7	41.3	277.6	271.9	8	50	78.0	83.6	41.9	41.1		
		43.7	43.4	275.9	270.6	9	0	76.0	82.0	39.9	38.9		
207	2.7	47.4	46.9	277.8	273.2	8	52	83.4	87.4	51.6	51.2	3.1	465
		49.5	49.1	276.1	271.8	9	2	81.7	86.0	49.5	49.0		
		51.5	51.3	274.5	270.6	9	12	80.0	84.6	47.5	46.8		
1146	4.3	57.1	56.6	277.0	273.7	9	14	83.3	86.0	61.3	60.8	1.2	458
		59.1	58.8	275.4	272.4	9	24	81.7	84.7	59.2	58.6		
		61.1	60.9	273.9	271.1	9	34	80.1	83.3	57.2	56.5		
222	3.9	49.2	49.3	271.7	267.4	9	27	87.4	91.1	53.4	53.3	4.8	1345
		51.3	51.4	270.2	266.2	9	37	85.9	89.9	51.4	51.2		
		53.3	53.6	268.8	265.1	9	47	84.3	88.6	49.3	49.0		
222	3.9	52.5	52.7	269.3	265.5	9	43	89.5	92.8	56.6	56.7	5.1	510
		54.6	54.9	267.9	264.4	9	53	88.0	91.6	54.6	54.6		
		56.6	57.1	266.6	263.3	10	3	86.5	90.4	52.5	52.4		
270	3.1	40.2	40.1	273.9	267.8	10	1	88.0	93.2	44.2	44.2	3.3	495
		42.2	42.3	272.2	266.7	10	11	86.5	92.0	42.1	42.1		
		44.3	44.4	270.7	265.6	10	21	84.9	90.9	40.1	39.9		
273	2.0	42.7	43.1	267.7	262.3	10	24	92.7	97.3	46.8	47.2	5.2	515
		44.7	45.3	266.4	261.4	10	34	91.3	96.3	44.7	45.1		
		46.8	47.4	265.1	260.5	10	44	89.9	95.3	42.7	42.9		
273	2.0	45.3	45.9	266.0	261.1	10	37	94.2	99.4	49.6	50.1	5.4	1376
		47.4	48.0	264.7	260.2	10	47	92.9	97.4	47.5	48.0		
		49.4	50.2	263.5	259.3	10	57	91.6	96.4	45.5	45.8		
1204	3.5	41.5	41.7	271.0	265.4	10	56	91.7	96.5	45.7	46.0	5.4	1376
		43.6	43.8	269.6	264.4	11	6	90.3	95.5	43.6	43.9		
		45.6	46.0	268.2	263.4	11	16	88.8	94.5	41.6	41.7		
1212	4.6	46.7	46.3	277.6	272.8	11	17	82.2	86.3	51.0	50.5	2.9	548
		48.8	48.4	275.9	271.5	11	27	80.5	84.9	49.0	48.3		
		50.8	50.6	274.3	270.2	11	37	78.8	83.4	46.9	46.2		
288	4.5	52.7	53.1	267.2	263.5	11	30	91.9	95.1	56.9	57.2	5.0	1413
		54.8	55.3	265.9	262.4	11	40	90.5	94.0	54.8	55.0		
		56.8	57.4	264.6	261.4	11	50	89.0	92.8	52.8	52.9		
288	4.5	55.0	55.5	265.8	262.3	11	41	93.7	96.6	59.4	59.8	2.9	597
		57.0	57.7	264.4	261.3	11	51	92.3	95.5	57.3	57.7		
		59.1	59.8	263.1	260.2	12	1	90.9	94.4	55.3	55.5		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT-35 LAT-30	LAT-35 LAT-30	HRS MIN	LAT-35 LAT-30	LAT-35 LAT-30	Z. D.	LAT-35 LAT-30				
308	2.9	50.1	50.6	266.1	262.0	11 55	94.1	97.7	54.1	54.6	2.5	594	
		52.1	52.8	264.8	261.0	12 5	92.8	96.6	52.1	52.5			
		54.2	54.9	263.5	260.0	12 15	91.4	95.5	50.0	50.3			
332	4.2	44.0	44.7	264.8	259.8	12 15	95.3	99.7	48.2	48.8	3.0	592	
		46.0	46.8	263.6	258.9	12 25	94.0	98.8	46.1	46.7			
		48.1	48.9	262.4	258.0	12 35	92.7	97.8	44.1	44.6			
325	5.2	56.6	56.0	278.5	275.2	12 30	82.1	85.0	60.7	60.2	2.7	622	
		58.6	58.2	276.9	273.8	12 40	80.5	83.6	58.7	58.0			
		60.7	60.3	275.3	272.5	12 50	78.9	82.2	56.7	55.9			
1243	4.9	43.7	44.1	267.8	262.6	12 41	94.2	98.7	47.6	48.2	3.1	607	
		45.7	46.3	266.5	261.7	12 51	92.9	97.8	45.6	46.0			
		47.8	48.4	265.2	260.7	13 1	91.6	96.8	43.5	43.9			
366	5.0	41.6	42.2	266.3	260.7	12 57	94.3	99.1	45.7	46.3	1.2	616	
		43.6	44.3	265.0	259.8	13 7	93.0	98.2	43.6	44.1			
		45.7	46.4	263.8	259.3	13 17	91.6	97.2	41.6	42.0			
373	5.2	45.8	45.4	277.4	272.5	13 9	83.9	88.2	49.8	49.4	5.0	624	
		47.9	47.6	275.7	271.2	13 19	82.3	86.8	47.8	47.3			
		49.9	49.7	274.1	269.9	13 29	80.6	85.4	45.7	45.1			
389	4.1	49.4	48.9	277.9	273.6	13 52	83.5	87.2	53.7	53.3	3.6	658	
		51.4	51.0	276.3	272.3	14 2	81.9	85.9	51.6	51.1			
		53.4	53.2	274.7	271.0	14 12	80.2	84.5	49.6	48.9			
410	3.3	47.2	46.5	280.8	276.2	14 3	81.7	85.7	51.4	50.9	3.6	658	
		49.2	48.6	279.1	274.7	14 13	80.0	84.3	49.4	48.7			
		51.2	50.8	277.4	273.3	14 23	78.2	82.8	47.4	46.6			
380	4.1	54.9	54.7	273.6	270.1	14 19	86.5	89.5	59.1	58.9	4.7	696	
		56.9	56.9	272.1	268.8	14 29	85.0	88.2	57.1	56.8			
		59.0	59.0	270.6	267.6	14 39	83.4	86.9	55.0	54.6			
421	4.5	45.5	45.5	271.6	266.7	14 33	89.0	93.2	49.8	49.9	4.0	682	
		47.5	47.7	270.1	265.5	14 43	87.5	92.1	47.7	47.7			
		49.6	49.9	268.7	264.5	14 53	86.0	90.9	45.7	45.5			
426	3.8	50.0	49.3	280.6	276.4	14 43	82.8	86.4	54.2	53.7	4.7	696	
		52.1	51.5	278.8	274.9	14 53	81.1	85.0	52.2	51.6			
		54.1	53.6	277.2	273.6	15 3	79.4	83.6	50.2	49.4			
421	4.5	51.2	51.6	267.6	263.6	15 1	92.9	96.3	55.5	55.9	3.0	720	
		53.2	53.7	266.2	262.6	15 11	91.6	95.2	53.5	53.8			
		55.3	55.9	264.9	261.5	15 21	90.1	94.1	51.4	51.6			
1305	5.5	44.0	44.5	266.4	261.3	15 11	95.7	100.1	48.1	48.8	2.1	706	
		46.0	46.6	265.1	260.4	15 21	94.4	99.2	46.1	46.7			
		48.0	48.8	263.9	259.5	15 31	93.1	98.2	44.0	44.5			
421	4.5	55.3	55.9	264.9	261.5	15 21	93.9	96.8	59.5	60.0	5.1	1517	
		57.3	58.0	263.6	260.5	15 31	92.5	95.7	57.5	57.8			
		59.4	60.1	262.3	259.5	15 41	91.1	94.6	55.4	55.7			
431	4.1	57.6	57.7	270.5	267.3	15 33	89.6	92.3	61.6	61.7	5.1	1522	
		59.6	59.8	269.0	266.1	15 43	88.2	91.1	59.6	59.5			
		61.7	62.0	267.6	265.0	15 53	86.7	89.9	57.5	57.4			
471	2.3	42.6	42.6	272.8	267.3	15 43	86.9	91.6	46.9	46.8	3.0	720	
		44.7	44.8	271.3	266.2	15 53	85.3	90.4	44.9	44.7			
		46.7	46.9	269.8	265.1	16 3	83.7	89.1	42.8	42.5			
465	3.1	49.2	48.6	278.6	274.2	15 54	84.7	88.4	53.4	53.1	5.5	1512	
		51.2	50.8	276.9	272.9	16 4	83.1	87.1	51.3	50.9			
		53.3	53.0	275.3	271.6	16 14	81.4	85.7	49.3	48.8			
465	3.1	49.4	48.9	279.4	274.1	15 55	84.6	88.3	53.6	53.3	5.1	1514	
		51.4	51.0	276.7	272.7	16 5	83.0	87.0	51.6	51.2			
		53.5	53.2	275.1	271.4	16 15	81.4	85.7	49.6	49.0			
465	3.1	51.2	50.8	276.9	272.9	16 4	85.0	88.5	55.3	55.0	5.1	1522	
		53.3	53.0	275.3	271.6	16 14	83.4	87.2	53.2	52.8			
		55.3	55.1	273.7	270.3	16 24	81.8	85.8	51.2	50.7			
465	3.1	53.7	53.4	275.0	271.3	16 16	86.0	89.1	57.9	57.7	3.3	762	
		55.7	55.6	273.4	270.0	16 26	84.5	87.9	55.9	55.5			
		57.8	57.7	271.9	268.8	16 36	82.9	86.5	53.8	53.4			
1345	4.8	45.7	45.2	278.6	273.7	16 30	80.8	85.0	50.0	49.4	5.1	1522	
		47.7	47.3	276.9	272.4	16 40	79.0	83.5	48.0	47.2			
		49.8	49.5	275.3	271.1	16 50	77.2	82.0	46.0	45.1			
1345	4.8	53.2	52.1	273.4	269.6	17 2	88.3	91.7	56.4	56.4	4.2	1552	
		55.3	54.3	271.9	268.3	17 12	86.8	90.4	54.4	54.2			
		56.3	56.4	270.5	267.2	17 22	85.3	89.2	52.3	52.1			
495	3.3	51.8	52.3	266.7	262.8	17 12	95.3	98.6	56.0	56.6	3.9	806	
		53.9	54.4	265.4	261.8	17 22	93.9	97.5	54.0	54.5			
		55.9	56.6	264.1	260.7	17 32	92.6	96.5	52.0	52.4			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-35	LAT-30	LAT-35	LAT-30	HRS	MIN	LAT-35	LAT-30	Z. D. LAT-35	LAT-30		
1345	4.8	56.7	56.9	270.2	266.9	17	24	90.0	92.8	60.9	61.0	3.0	815
		58.8	59.0	268.8	265.8	17	34	88.6	91.6	58.8	58.8		
		60.8	61.2	267.4	264.6	17	44	87.1	90.4	56.8	56.7		
510	5.1	53.5	53.4	272.8	269.1	17	39	87.8	91.0	57.8	57.8	3.0	819
		55.5	55.5	271.3	267.9	17	49	86.3	89.7	55.8	55.6		
		57.5	57.7	269.8	266.7	17	59	84.8	88.5	53.7	53.4		
556	3.4	38.2	38.2	272.8	266.5	17	55	89.8	95.3	42.1	42.3	4.6	791
		40.2	40.4	271.3	265.4	18	5	88.4	94.3	40.0	40.2		
		42.3	42.5	269.9	264.4	18	15	86.8	93.2	38.0	38.0		
556	3.4	40.6	40.8	271.0	265.2	18	7	87.6	92.6	44.8	44.8	3.9	806
		42.7	43.0	269.6	264.2	18	17	86.0	91.4	42.7	42.6		
		44.7	45.1	268.2	263.2	18	27	84.4	90.2	40.7	40.5		
548	2.9	50.5	49.9	278.2	274.1	18	20	82.2	85.8	54.6	54.1	4.4	828
		52.5	52.1	276.6	272.7	18	30	80.5	84.4	52.6	51.9		
		54.5	54.3	275.0	271.4	18	40	78.8	82.9	50.6	49.8		
548	2.9	54.9	54.7	274.7	271.1	18	42	88.2	91.2	58.9	58.9	3.5	866
		57.0	56.9	273.1	269.9	18	52	86.7	90.0	56.9	56.7		
		59.0	59.0	271.6	268.6	19	2	85.2	88.7	54.8	54.6		
577	4.0	50.8	50.1	279.8	275.7	19	3	81.9	85.5	54.8	54.3	4.2	861
		52.8	52.3	278.1	274.3	19	13	80.3	84.1	52.8	52.1		
		54.9	54.4	276.5	273.0	19	23	78.5	82.6	50.8	49.9		
597	2.9	44.5	44.1	277.1	272.0	19	15	86.2	90.6	48.8	48.6	5.4	1597
		46.6	46.3	275.4	270.7	19	25	84.6	89.4	46.7	46.5		
		48.6	48.5	273.9	269.4	19	35	83.0	88.1	44.7	44.3		
594	2.5	46.3	46.4	271.2	266.5	19	25	89.8	93.9	50.5	50.6	3.8	873
		48.3	48.5	269.8	265.4	19	35	88.3	92.8	48.4	48.5		
		50.4	50.7	268.4	264.3	19	45	86.8	91.6	46.4	46.3		
1413	5.0	55.3	55.5	269.2	265.8	19	44	90.8	93.7	59.6	59.8	4.6	905
		57.4	57.7	267.8	264.6	19	54	89.3	92.5	57.5	57.6		
		59.4	59.9	266.4	263.5	20	4	87.9	91.3	55.5	55.5		
597	2.9	52.9	53.0	270.7	266.9	19	56	89.0	92.3	57.1	57.2	4.6	905
		55.0	55.2	269.3	265.8	20	6	87.6	91.1	55.1	55.0		
		57.0	57.3	267.9	264.6	20	16	86.1	89.8	53.0	52.9		
597	2.9	56.8	57.1	268.0	264.8	20	15	92.7	95.4	61.1	61.4	2.2	22
		58.8	59.3	266.6	263.6	20	25	91.3	94.2	59.0	59.3		
		60.9	61.4	265.3	262.5	20	35	89.8	93.1	57.0	57.1		
644	3.4	45.1	45.4	268.3	263.4	20	46	92.8	97.1	49.2	49.7	5.2	14
		47.1	47.6	267.0	262.4	20	56	91.5	96.1	47.2	47.5		
		49.1	49.7	265.6	261.4	21	6	90.1	95.0	45.2	45.4		
1457	4.3	47.0	47.3	268.3	263.7	20	58	91.2	95.2	51.3	51.6	5.5	1018
		49.0	49.5	266.9	262.6	21	8	89.8	94.1	49.3	49.5		
		51.1	51.6	265.6	261.6	21	18	88.3	93.0	47.3	47.3		
682	4.0	43.4	43.1	275.8	270.5	21	21	82.8	87.3	47.6	47.2	2.2	22
		45.5	45.3	274.2	269.3	21	31	81.0	86.0	45.6	45.0		
		47.5	47.5	272.7	268.1	21	41	79.3	84.5	43.5	42.8		
1457	4.3	54.5	55.3	263.4	259.9	21	35	95.3	98.2	58.8	59.4	4.2	71
		56.6	57.4	262.2	259.0	21	45	93.9	97.2	56.8	57.3		
		58.6	59.5	260.9	258.0	21	55	92.6	96.1	54.7	55.1		
692	2.9	45.7	46.1	267.2	262.4	21	56	95.0	99.2	49.8	50.4	5.4	61
		47.7	48.3	265.9	261.4	22	6	93.7	98.2	47.7	48.3		
		49.8	50.4	264.6	260.4	22	16	92.4	97.2	45.7	46.1		
1487	3.3	43.5	44.0	266.1	260.9	22	6	93.7	98.2	47.7	48.3	5.4	61
		45.5	46.2	264.9	260.1	22	16	92.4	97.2	45.7	46.1		
		47.6	48.3	263.6	259.2	22	26	91.0	96.2	43.6	44.0		
692	2.9	49.8	50.4	264.6	260.4	22	16	95.8	99.4	53.8	54.4	5.4	83
		51.8	52.6	263.3	259.5	22	26	94.5	98.3	51.7	52.3		
		53.8	54.7	262.1	258.5	22	36	93.1	97.3	49.7	50.2		
696	4.7	56.8	56.5	275.2	271.9	22	26	87.1	89.9	61.1	61.0	4.4	97
		58.9	58.7	273.7	270.6	22	36	85.6	88.6	59.1	58.8		
		60.9	60.9	272.2	269.4	22	46	84.1	87.3	57.0	56.7		
710	3.6	51.2	51.3	269.9	265.9	22	43	92.9	96.3	55.4	55.8	4.8	102
		53.2	53.5	268.5	264.8	22	53	91.5	95.2	53.4	53.7		
		55.2	55.6	267.1	263.7	23	3	90.1	94.1	51.3	51.5		
727	4.6	51.1	50.6	277.6	273.6	22	54	82.8	86.2	55.4	54.9	4.4	97
		53.1	52.8	276.0	272.2	23	4	81.1	84.9	53.4	52.8		
		55.2	54.9	274.4	270.9	23	14	79.4	83.5	51.4	50.6		
1512	5.5	49.1	48.5	278.8	274.4	23	4	81.1	84.9	53.4	52.8	4.4	97
		51.1	50.7	277.1	273.0	23	14	79.4	83.5	51.4	50.6		
		53.1	52.8	275.5	271.7	23	24	77.7	82.0	49.4	48.5		

CATNO	MAG	WEST STAR		AZ		LST HRS MIN	AZ		EAST STAR		MAG	CATNO	
		Z. D. LAT-35 LAT-30	LAT-35 LAT-30	LAT-35 LAT-30	LAT-35 LAT-30		Z. D. LAT-35 LAT-30	LAT-35 LAT-30					
1514	5.1	49.0	48.4	279.1	274.7	23	5	81.0	84.7	53.2	52.6	4.4	97
		51.0	50.6	277.4	273.3	23	15	79.3	83.3	51.2	50.4		
		53.1	52.7	275.8	272.0	23	25	77.5	81.8	49.2	48.3		
722	5.0	55.3	55.4	270.1	266.6	23	18	90.7	93.6	59.3	59.5	5.3	1100
		57.3	57.6	268.7	265.5	23	28	89.2	92.4	57.2	57.3		
		59.4	59.7	267.3	264.4	23	38	87.8	91.2	55.2	55.1		
1517	5.1	52.1	52.1	271.2	267.3	23	33	88.5	91.8	56.2	56.2	5.3	1100
		54.1	54.3	269.8	266.2	23	43	87.0	90.6	54.2	54.1		
		56.2	56.5	268.4	265.0	23	53	85.5	89.4	52.1	51.9		
770	4.3	39.8	39.9	271.4	265.4	23	45	88.8	94.0	43.8	44.0	4.2	1085
		41.8	42.0	270.0	264.4	23	55	87.3	92.9	41.8	41.8		
		43.8	44.2	268.5	263.4	24	5	85.7	91.8	39.7	39.6		

CAT NO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-30	LAT-25	HRS	MIN	LAT-30	LAT-25	LAT-30	LAT-25		
762	3.3	52.6	52.4	274.0	270.1	0	0	86.9	90.2	56.8	56.7	3.2	149
		54.7	54.6	272.6	269.1	0	10	85.6	89.1	54.6	54.4		
		56.9	56.9	271.3	268.1	0	20	84.2	88.0	52.5	52.2		
762	3.3	56.7	56.7	271.5	268.2	0	19	90.4	93.2	61.0	61.2	4.0	172
		58.8	58.9	270.2	267.2	0	29	89.2	92.2	58.9	58.9		
		61.0	61.2	269.0	266.2	0	39	87.9	91.2	56.7	56.7		
819	3.0	42.9	42.4	278.5	273.1	0	44	80.6	85.2	47.3	46.7	3.2	149
		45.0	44.7	276.9	271.9	0	54	79.0	83.9	45.2	44.5		
		47.2	46.9	275.5	270.8	1	4	77.3	82.6	43.1	42.2		
812	3.8	47.6	47.4	278.4	269.8	1	0	85.1	89.0	52.2	51.9	4.0	172
		49.8	49.7	273.0	268.8	1	10	83.6	87.8	50.0	49.6		
		51.9	51.9	271.7	267.8	1	20	82.2	86.7	47.9	47.4		
1584	5.4	39.0	39.1	272.0	265.8	1	11	89.0	94.3	43.4	43.5	5.3	161
		41.2	41.4	270.7	265.0	1	21	87.7	93.4	41.2	41.2		
		43.4	43.6	269.4	264.1	1	31	86.3	92.5	39.0	39.0		
1561	4.3	56.8	57.1	268.6	265.4	1	25	91.3	94.0	61.4	61.7	3.7	219
		59.0	59.3	267.4	264.5	1	35	90.0	93.0	59.3	59.4		
		61.1	61.6	266.3	263.5	1	45	88.8	92.0	57.1	57.1		
819	3.0	54.3	54.4	271.0	267.4	1	37	89.8	92.8	58.8	58.9	3.7	219
		56.5	56.7	269.7	266.4	1	47	88.5	91.8	56.7	56.7		
		58.7	58.9	268.5	265.5	1	57	87.2	90.8	54.5	54.4		
849	5.3	45.2	45.4	269.7	264.8	1	51	92.5	96.8	49.3	49.7	3.0	204
		47.3	47.7	268.5	263.9	2	1	91.3	95.9	47.1	47.4		
		49.5	49.9	267.3	263.1	2	11	90.1	95.1	45.0	45.2		
1597	5.4	45.0	45.1	271.5	266.5	2	1	88.3	92.6	49.3	49.3	2.7	207
		47.1	47.3	270.2	265.6	2	11	86.9	91.6	47.1	47.0		
		49.3	49.6	269.0	264.7	2	21	85.5	90.6	44.9	44.8		
866	3.5	47.2	46.9	275.9	271.3	2	11	85.3	89.3	51.5	51.2	3.7	219
		49.3	49.1	274.5	270.2	2	21	83.9	88.2	49.3	49.0		
		51.5	51.4	273.1	269.1	2	31	82.4	87.1	47.2	46.7		
1621	5.3	39.1	38.7	277.6	271.4	2	28	84.5	89.8	43.4	43.2	2.7	207
		41.3	41.0	276.1	270.3	2	38	83.0	88.7	41.3	40.9		
		43.4	43.2	274.6	269.3	2	48	81.4	87.6	39.1	38.7		
894	4.6	43.5	43.8	280.6	275.3	2	39	81.8	86.4	47.8	47.3	3.8	226
		45.6	45.0	279.0	274.1	2	49	80.3	85.2	45.6	45.0		
		47.7	47.3	277.5	272.9	2	59	78.6	83.9	43.5	42.8		
866	3.5	55.4	55.5	270.8	267.3	2	49	81.2	94.1	59.5	59.8	4.1	271
		57.6	57.7	269.5	266.3	2	59	80.9	93.1	57.4	57.5		
		59.7	60.0	268.3	265.4	3	9	88.7	92.2	55.2	55.2		
894	4.6	50.1	49.8	275.9	271.6	3	10	83.3	86.9	54.5	54.1	4.0	266
		52.3	52.0	274.4	270.6	3	20	81.9	85.7	52.4	51.9		
		54.4	54.1	273.1	269.5	3	30	80.4	84.5	50.3	49.6		
14	5.2	39.7	39.1	268.4	262.2	3	22	92.5	97.8	43.3	43.7	4.5	249
		40.9	41.4	267.3	261.6	3	32	91.3	97.0	41.1	41.5		
		43.0	43.6	266.1	260.9	3	42	90.1	96.3	39.0	39.2		
1612	4.2	56.8	57.4	264.3	261.1	3	32	95.6	98.3	61.2	61.8	4.6	1212
		58.9	59.7	263.2	260.3	3	42	94.4	97.4	59.0	59.5		
		61.1	61.9	262.1	259.5	3	52	93.3	96.5	56.9	57.3		
22	2.2	43.0	42.8	275.3	270.0	3	45	83.8	88.4	47.4	47.1	4.1	271
		45.2	45.0	273.9	268.9	3	55	82.3	87.2	45.3	44.8		
		47.3	47.3	272.5	267.9	4	5	80.7	86.0	43.1	42.6		
905	4.6	54.9	55.2	269.0	265.5	3	59	91.3	94.2	59.4	59.6	5.1	311
		57.1	57.4	267.8	264.6	4	9	90.0	93.2	57.2	57.4		
		59.3	59.7	266.6	263.7	4	19	88.8	92.3	55.0	55.1		
22	2.2	50.6	50.7	270.6	266.5	4	20	88.6	92.2	54.8	54.9	5.1	311
		52.7	53.0	269.3	265.6	4	30	87.3	91.1	52.7	52.6		
		54.9	55.2	268.1	264.6	4	40	86.0	90.1	50.5	50.3		
59	3.7	41.6	41.0	279.7	274.1	4	35	81.2	86.1	46.2	45.7	5.1	1202
		43.8	43.3	278.1	272.9	4	45	79.6	84.8	44.1	43.4		
		45.9	45.6	276.6	271.7	4	55	77.9	83.5	42.0	41.2		
71	4.2	39.5	39.6	272.5	266.5	4	51	85.8	91.0	44.1	44.0	4.6	1212
		41.7	41.8	271.2	265.6	5	1	84.3	89.9	41.9	41.7		
		43.9	44.1	269.9	264.8	5	11	82.8	88.8	39.8	39.4		
1043	5.1	52.4	53.0	264.6	260.8	5	21	96.7	99.9	56.7	57.4	5.2	1247
		54.5	55.3	263.5	260.0	5	31	95.6	99.1	54.6	55.2		
		56.7	57.5	262.4	259.2	5	41	94.5	98.3	52.4	53.0		
59	3.7	54.1	54.2	271.4	267.7	5	33	88.8	91.9	58.5	58.5	5.0	364
		56.3	56.4	270.1	266.8	5	43	87.5	90.9	56.3	56.3		
		58.5	58.7	268.8	265.8	5	53	86.2	89.8	54.2	54.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT-30 LAT-25	LAT-30 LAT-25	HRS MIN	LAT-30 LAT-25	Z. D.	LAT-30 LAT-25					
1071	4.8	49.1	48.8	275.6	271.2	5 56	85.8	89.5	53.5	53.3	5.0	364	
		51.2	51.0	274.1	270.1	6 6	84.4	88.4	51.4	51.1			
		53.4	53.3	272.8	269.1	6 16	82.9	87.3	49.2	48.8			
1066	4.9	54.1	53.7	276.4	272.8	6 7	86.3	89.3	58.6	58.4	3.8	381	
		56.3	56.0	275.0	271.7	6 17	84.9	88.2	56.4	56.1			
		58.4	58.2	273.7	270.6	6 27	83.5	87.1	54.3	53.9			
97	4.4	51.8	51.5	275.7	271.8	6 18	84.8	88.1	56.2	55.9	3.8	381	
		54.0	53.8	274.3	270.7	6 28	83.4	87.0	54.1	53.7			
		56.1	56.0	273.0	269.6	6 38	81.9	85.8	51.9	51.4			
1099	4.3	41.5	41.7	270.5	264.8	6 35	88.0	92.8	46.2	46.3	5.2	373	
		43.7	44.0	269.2	264.0	6 45	86.7	91.8	44.1	44.0			
		45.9	46.2	268.0	263.2	6 55	85.3	90.8	41.9	41.7			
102	4.8	53.6	54.2	264.8	261.2	6 47	93.7	96.8	58.0	58.4	4.2	1283	
		55.8	56.4	263.7	260.4	6 57	92.5	95.9	55.8	56.2			
		57.9	58.7	262.6	259.6	7 7	91.3	95.0	53.7	53.9			
1100	5.3	48.7	48.7	272.5	268.1	7 3	88.2	91.9	53.2	53.2	3.3	410	
		50.9	50.9	271.2	267.2	7 13	86.8	90.9	51.0	50.9			
		53.0	53.2	270.0	266.2	7 23	85.5	89.8	48.9	48.7			
1100	5.3	52.2	52.3	270.5	266.6	7 19	88.4	91.6	56.8	56.8	3.8	426	
		54.3	54.5	269.2	265.6	7 29	87.1	90.6	54.6	54.5			
		56.5	56.8	268.0	264.7	7 39	85.7	89.6	52.5	52.3			
135	3.7	56.3	55.8	278.5	275.1	7 29	84.2	87.0	60.7	60.3	4.8	1299	
		58.5	58.0	277.0	274.0	7 39	82.8	85.9	58.6	58.1			
		60.6	60.3	275.7	272.8	7 49	81.4	84.7	56.4	55.8			
161	5.3	48.9	49.2	267.9	263.5	7 54	91.1	94.8	53.2	53.4	4.9	1301	
		51.0	51.5	266.7	262.7	8 4	89.9	93.9	51.0	51.2			
		53.2	53.7	265.6	261.9	8 14	88.6	93.0	48.9	48.9			
1144	3.3	42.2	41.7	279.0	273.4	8 7	81.6	86.4	46.4	45.9	3.8	426	
		44.4	44.0	277.4	272.3	8 17	80.1	85.2	44.3	43.7			
		46.5	46.2	275.9	271.1	8 27	78.4	83.9	42.2	41.4			
207	2.7	39.6	39.2	278.2	272.1	8 18	84.5	89.7	44.0	43.7	4.1	431	
		41.8	41.4	276.6	271.0	8 28	83.0	88.6	41.8	41.5			
		43.9	43.7	275.1	269.9	8 38	81.4	87.4	39.7	39.2			
204	3.0	41.6	41.6	271.9	265.3	8 28	86.7	91.6	45.8	45.8	4.0	1311	
		43.7	43.9	270.6	265.4	8 38	85.3	90.6	43.7	43.5			
		45.9	46.1	269.4	264.6	8 48	83.9	89.5	41.5	41.2			
207	2.7	45.2	45.1	274.3	269.3	8 44	87.8	92.0	49.4	49.4	2.8	457	
		47.4	47.3	272.0	268.3	8 54	86.4	91.0	47.3	47.1			
		49.5	49.6	271.6	267.3	9 4	85.0	90.0	45.1	44.9			
243	2.0	39.8	39.4	277.9	271.9	9 9	84.3	89.5	44.0	43.7	2.8	457	
		41.9	41.6	276.3	270.7	9 19	82.8	88.4	41.9	41.5			
		44.1	43.9	274.8	269.7	9 29	81.2	87.2	39.7	39.2			
222	3.9	49.1	49.5	267.5	263.2	9 26	91.3	94.9	53.6	53.8	4.8	1345	
		51.2	51.7	266.3	262.4	9 36	90.0	94.0	51.4	51.6			
		53.4	54.0	265.2	261.5	9 46	88.8	93.1	49.2	49.3			
222	3.9	52.5	53.1	265.6	261.9	9 42	92.9	96.1	57.0	57.4	5.1	510	
		54.7	55.3	264.5	261.1	9 52	91.7	95.2	54.8	55.1			
		56.9	57.5	263.4	260.2	10 2	90.5	94.3	52.6	52.8			
226	3.8	57.7	57.7	271.7	268.6	9 58	89.6	92.2	61.9	62.0	4.6	1371	
		59.9	60.0	270.5	267.6	10 8	88.3	91.2	59.7	59.7			
		62.0	62.2	269.2	266.6	10 18	87.0	90.2	57.6	57.5			
1171	5.4	55.3	54.9	276.8	273.4	10 9	84.2	87.1	59.6	59.3	4.3	523	
		57.5	57.1	275.4	272.2	10 19	82.8	86.0	57.5	57.0			
		59.6	59.4	274.1	271.1	10 29	81.3	84.8	55.3	54.7			
266	4.3	51.9	51.3	278.5	274.6	10 24	82.0	85.4	56.4	55.9	4.3	523	
		54.0	53.6	277.0	273.4	10 34	80.6	84.2	54.3	53.6			
		56.2	55.8	275.6	272.2	10 44	79.0	82.9	52.1	51.4			
257	1.6	54.7	54.8	270.1	266.6	10 38	91.3	94.3	58.9	59.2	2.9	548	
		56.9	57.1	268.9	265.7	10 48	90.1	93.3	56.8	56.9			
		59.0	59.4	267.7	264.7	10 58	88.8	92.4	54.6	54.6			
1202	5.1	45.8	45.2	279.1	274.2	10 53	82.1	86.3	50.0	49.5	4.6	1371	
		47.9	47.5	277.5	273.0	11 3	80.5	85.1	47.9	47.3			
		50.1	49.7	276.1	271.9	11 13	78.9	83.8	45.8	45.0			
311	5.1	42.6	42.0	279.5	274.1	11 8	79.7	84.5	46.8	46.1	4.6	1371	
		44.7	44.3	277.9	272.9	11 18	78.1	83.2	44.7	43.9			
		46.9	46.5	276.4	271.7	11 28	76.3	81.8	42.6	41.6			
293	4.1	54.6	53.9	280.2	276.6	11 18	82.6	85.6	59.0	58.5	2.7	564	
		56.7	56.1	278.7	275.4	11 28	81.2	84.4	56.9	56.2			
		58.9	58.4	277.2	274.2	11 38	79.7	83.2	54.7	54.0			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-30	LAT-25	LAT-30	LAT-25	HRS	MIN	LAT-30	LAT-25	LAT-30	LAT-25		
288	4.5	52.9	53.7	263.6	259.9	11	29	95.2	98.4	57.4	58.0	5.0	1413
		55.1	55.9	262.5	259.1	11	39	94.1	97.5	55.2	55.7		
		57.2	58.1	261.5	259.4	11	49	92.9	96.6	53.1	53.5		
311	5.1	50.3	50.1	274.1	270.0	11	44	87.3	90.8	54.8	54.8	4.0	577
		52.5	52.4	272.8	268.9	11	54	85.9	89.7	52.7	52.5		
		54.7	54.7	271.5	267.9	12	4	84.5	88.7	50.5	50.2		
311	5.1	52.9	52.9	272.5	268.7	11	56	88.1	91.3	57.4	57.3	4.7	1417
		55.1	55.1	271.2	267.7	12	6	86.8	90.3	55.2	55.1		
		57.2	57.4	270.0	266.7	12	16	85.5	89.2	53.0	52.8		
1247	5.2	40.4	40.5	272.2	266.4	12	28	88.1	93.2	44.6	44.7	5.0	1413
		42.6	42.7	270.9	265.5	12	38	86.8	92.2	42.5	42.4		
		44.7	45.0	269.7	264.6	12	48	85.3	91.2	40.3	40.2		
364	5.0	43.9	43.2	280.9	275.7	12	38	82.3	86.8	48.3	47.8	4.7	1417
		46.1	45.5	279.3	274.5	12	48	80.7	85.6	46.2	45.6		
		48.2	47.7	277.8	273.3	12	58	79.1	84.3	44.0	43.3		
373	5.2	41.1	40.9	275.3	269.6	12	49	82.7	88.7	45.4	45.1	5.5	1419
		43.2	43.1	273.9	268.5	12	59	82.2	87.5	43.2	42.8		
		45.4	45.4	272.5	267.6	13	9	80.6	86.3	41.1	40.5		
373	5.2	45.2	45.2	272.6	267.7	13	8	88.3	92.5	49.7	49.7	5.0	624
		47.4	47.4	271.3	266.7	13	18	87.0	91.6	47.5	47.4		
		49.5	49.7	270.0	265.8	13	28	85.6	90.5	45.3	45.2		
1261	4.7	48.0	47.3	279.9	275.3	13	19	80.0	83.8	52.3	51.6	4.7	1438
		50.1	49.6	278.3	274.1	13	29	78.4	82.6	50.1	49.3		
		52.3	51.9	276.8	272.9	13	39	76.7	81.2	48.0	47.1		
1283	4.2	38.4	37.9	278.5	272.2	13	40	83.8	89.3	42.7	42.4	5.0	624
		40.6	40.2	276.9	271.7	13	50	82.3	88.2	40.6	40.2		
		42.7	42.5	275.4	270.7	14	0	80.7	87.0	38.5	37.9		
389	4.1	48.9	48.7	273.6	269.2	13	52	87.2	91.0	53.3	53.2	3.6	658
		51.0	51.0	272.3	268.2	14	2	85.9	89.9	51.1	50.9		
		53.2	53.3	271.0	267.2	14	12	84.5	88.8	48.9	48.6		
410	3.3	46.5	46.1	276.2	271.4	14	3	85.7	89.8	50.9	50.7	3.6	658
		48.6	48.4	274.7	270.3	14	13	84.3	88.7	48.7	48.4		
		50.8	50.7	273.3	269.2	14	23	82.8	87.6	46.6	46.2		
431	4.1	42.3	42.7	276.7	271.2	14	22	83.0	87.7	46.8	46.4	3.6	658
		44.5	44.2	275.2	270.1	14	32	81.5	86.5	44.6	44.1		
		46.6	46.5	273.8	269.0	14	42	79.8	85.3	42.5	41.9		
421	4.5	45.5	46.0	266.7	261.8	14	33	83.2	87.4	49.9	50.3	4.0	682
		47.7	48.3	265.5	261.1	14	43	82.1	86.6	47.7	48.1		
		49.9	50.5	264.5	260.2	14	53	80.9	85.7	45.5	45.8		
426	3.8	42.3	42.9	276.4	272.0	14	43	86.4	90.1	53.7	53.6	4.7	696
		51.5	51.2	274.9	270.9	14	53	85.0	89.0	51.6	51.3		
		53.6	53.5	273.6	269.9	15	3	83.6	87.9	49.4	49.1		
453	3.2	39.3	39.5	272.5	264.4	15	2	89.7	95.0	43.6	43.8	4.6	682
		41.4	41.7	269.2	263.6	15	12	88.5	94.1	41.4	41.5		
		43.6	44.0	268.0	262.8	15	22	87.1	92.2	39.3	39.3		
431	4.1	53.5	53.7	269.6	265.9	15	14	90.7	93.8	57.8	58.0	4.6	727
		55.7	56.0	268.4	265.0	15	24	89.5	92.9	55.6	55.7		
		57.9	58.3	267.2	264.1	15	34	88.2	91.9	53.5	53.5		
453	3.2	44.0	44.4	267.8	262.7	15	24	92.5	96.9	48.3	48.7	3.6	710
		46.2	46.7	266.6	261.9	15	34	91.3	96.1	46.2	46.5		
		48.3	48.9	265.5	261.1	15	44	90.1	95.2	44.0	44.2		
1311	4.0	53.1	53.3	269.0	265.2	15	33	91.1	94.2	57.6	57.9	5.5	1512
		55.2	55.6	267.7	264.3	15	43	89.8	93.3	55.5	55.6		
		57.4	57.8	266.6	263.4	15	53	88.6	92.3	53.3	53.2		
1301	4.9	53.3	53.6	268.8	265.1	15	34	91.0	94.1	57.9	58.1	5.1	1514
		55.5	55.8	267.6	264.2	15	44	89.7	93.1	55.7	55.8		
		57.6	58.1	266.5	263.3	15	54	88.5	92.2	53.5	53.6		
465	3.1	46.7	46.4	275.5	270.8	15	45	86.7	90.8	51.1	51.0	4.6	727
		48.9	48.7	274.1	269.7	15	55	85.3	89.7	48.9	48.7		
		51.0	51.0	272.7	268.7	16	5	83.9	88.6	46.8	46.4		
457	2.8	51.9	52.0	270.8	266.8	15	57	89.4	92.7	56.5	56.6	5.1	1522
		54.1	54.3	269.5	265.9	16	7	88.1	91.7	54.3	54.2		
		56.2	56.5	268.3	265.0	16	17	86.8	90.7	52.2	52.1		
457	2.8	54.7	54.9	269.1	265.6	16	10	89.9	92.9	59.0	59.1	3.3	762
		56.9	57.2	267.9	264.7	16	20	88.6	91.9	56.8	56.9		
		59.0	59.5	266.7	263.8	16	30	87.3	90.9	54.7	54.6		
1345	4.8	45.0	44.8	272.9	268.9	16	29	85.1	89.4	49.6	49.4	5.1	1522
		47.1	47.1	272.5	267.9	16	39	83.7	88.3	47.4	47.1		
		49.3	49.4	271.2	266.9	16	49	82.2	87.2	45.3	44.8		

CATNO	MAG	WEST STAR				EAST STAR				MAG	CATNO		
		Z. D.	LAT-30		LAT-25		Z. D.	LAT-30				LAT-25	
1335	4.9	57.2	56.6	278.5	275.2	16	43	83.8	86.6	61.4	61.0	4.8	1547
		59.3	58.8	277.0	274.0	16	53	82.4	85.4	59.3	58.7		
		61.5	61.1	275.6	272.9	17	3	81.0	84.2	57.1	56.5		
498	1.2	52.8	52.1	279.2	275.4	16	57	81.7	84.9	57.1	56.5	3.8	781
		58.9	58.4	277.7	274.2	17	7	80.2	83.7	55.0	54.3		
		57.1	56.7	276.3	273.1	17	17	78.6	82.4	52.8	52.0		
1345	4.8	53.8	54.1	268.6	265.0	17	10	92.2	95.3	58.4	58.7	4.3	1561
		56.0	56.4	267.4	264.0	17	20	91.0	94.4	56.2	56.4		
		58.2	58.6	266.2	263.2	17	30	89.8	93.4	54.0	54.2		
1345	4.8	56.6	57.0	267.0	263.8	17	23	92.9	95.6	61.2	61.6	3.0	819
		58.8	59.3	265.9	262.9	17	33	91.7	94.7	59.1	59.3		
		61.0	61.5	264.7	262.0	17	43	90.5	93.7	56.9	57.1		
1371	4.6	48.3	47.7	279.2	274.7	17	35	81.3	85.1	52.7	52.1	4.5	794
		50.5	50.0	277.6	273.5	17	45	79.8	83.9	50.6	49.9		
		52.6	52.2	276.2	272.3	17	55	78.2	82.6	48.5	47.6		
523	4.3	53.7	53.0	279.8	276.1	17	47	80.0	83.2	57.9	57.2	4.8	1569
		55.8	55.3	278.3	274.9	17	57	78.5	81.9	55.8	55.0		
		58.0	57.5	276.9	273.8	18	7	76.9	80.6	53.7	52.7		
559	4.7	39.4	39.3	275.1	269.0	18	0	84.0	89.2	43.9	43.6	4.2	1552
		41.6	41.5	273.6	268.0	18	10	82.5	88.1	41.7	41.3		
		43.8	43.8	272.3	267.1	18	20	80.8	86.9	39.6	39.0		
559	4.7	43.1	43.1	272.7	267.3	18	17	85.7	90.3	47.8	47.6	3.8	812
		45.3	45.4	271.4	266.4	18	27	84.3	89.2	45.6	45.4		
		47.4	47.6	270.1	265.5	18	37	82.8	88.1	43.5	43.1		
1413	5.1	40.0	39.8	274.9	268.9	18	32	83.6	88.7	44.6	44.2	3.8	812
		42.1	42.1	273.5	267.9	18	42	82.0	87.5	42.4	42.0		
		44.3	44.3	272.1	267.0	18	52	80.4	86.3	40.3	39.7		
548	2.9	54.7	54.7	271.1	267.6	18	42	91.2	94.2	58.9	59.1	3.5	866
		56.9	57.0	269.9	266.6	18	52	90.0	93.3	56.7	56.9		
		59.0	59.3	268.6	265.7	19	2	88.7	92.3	54.6	54.6		
564	2.7	55.0	54.2	280.2	276.6	18	55	80.8	83.7	59.5	58.9	3.8	864
		57.1	56.5	278.7	275.4	19	5	79.3	82.5	57.4	56.6		
		59.3	58.8	277.2	274.3	19	15	77.7	81.2	55.3	54.4		
564	2.7	57.1	56.5	278.7	275.4	19	5	84.1	86.9	61.6	61.2	4.5	1608
		59.3	58.8	277.2	274.3	19	15	82.8	85.7	59.5	59.0		
		61.4	61.0	275.9	273.1	19	25	81.3	84.5	57.3	56.7		
1409	4.8	55.2	54.6	279.0	275.5	19	15	82.8	85.7	59.5	59.0	4.5	1608
		57.4	56.9	277.6	274.3	19	25	81.3	84.5	57.3	56.7		
		59.5	59.1	276.1	273.2	19	35	79.8	83.3	55.2	54.5		
1409	4.8	55.5	54.8	278.9	275.4	19	16	83.6	86.5	59.7	59.2	5.2	1609
		57.6	57.1	277.4	274.2	19	26	82.2	85.4	57.5	57.0		
		59.7	59.4	276.0	273.1	19	36	80.7	84.2	55.4	54.7		
594	2.5	46.4	46.9	266.5	261.8	19	25	93.9	98.0	50.6	51.1	3.8	873
		48.5	49.1	265.4	261.0	19	35	92.8	97.2	48.5	48.9		
		50.7	51.4	264.3	260.3	19	45	91.6	96.3	46.3	46.6		
624	5.0	42.4	42.0	276.4	270.9	19	39	83.7	88.4	46.6	46.2	3.5	866
		44.5	44.3	275.0	269.9	19	49	82.2	87.3	44.4	44.0		
		46.7	46.6	273.6	268.8	19	59	80.6	86.1	42.3	41.7		
597	2.9	52.8	53.2	267.0	263.3	19	55	92.4	95.6	57.4	57.8	4.6	905
		55.0	55.5	265.9	262.4	20	5	91.2	94.6	55.2	55.5		
		57.1	57.7	264.8	261.6	20	15	90.0	93.7	53.1	53.2		
597	2.9	57.1	57.7	264.8	261.6	20	15	95.4	99.1	61.4	62.0	2.2	22
		59.3	59.9	263.6	260.7	20	25	94.2	97.2	59.3	59.8		
		61.4	62.2	262.5	259.9	20	35	93.1	96.3	57.1	57.5		
658	3.6	42.3	41.7	280.3	274.8	20	30	81.7	86.4	46.5	46.0	4.6	894
		44.5	43.9	278.7	273.6	20	40	80.1	85.2	44.4	43.8		
		46.6	46.2	277.1	272.4	20	50	78.4	83.9	42.3	41.5		
1457	4.3	47.3	48.1	263.7	259.2	20	58	95.2	99.1	51.6	52.3	5.5	1018
		49.5	50.3	262.6	258.5	21	8	94.1	98.3	49.5	50.0		
		51.6	52.5	261.6	257.8	21	18	93.0	97.5	47.3	47.8		
682	4.0	42.9	43.1	270.7	265.3	21	20	87.5	92.1	47.4	47.3	2.2	22
		45.1	45.4	269.4	264.4	21	30	86.1	91.1	45.2	45.1		
		47.2	47.6	268.2	263.6	21	40	84.7	90.1	43.0	42.8		
673	3.5	53.7	52.9	280.4	276.8	21	32	80.6	83.7	58.0	57.4	3.8	47
		55.8	55.2	278.9	275.5	21	42	79.1	82.5	55.9	55.1		
		58.0	57.4	277.5	274.3	21	52	77.5	81.2	53.8	52.9		
696	4.7	55.0	54.9	272.8	269.3	22	19	86.8	89.8	59.3	59.1	4.9	1066
		57.2	57.2	271.5	268.3	22	29	85.5	88.7	57.1	56.9		
		59.3	59.5	270.2	267.3	22	39	84.1	87.6	55.0	54.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-30	LAT-25	LAT-30	LAT-25	HRS	MIN	LAT-30	LAT-25	Z. D. LAT-30	LAT-25		
1512	5.5	41.6	41.1	279.2	273.6	22	32	83.3	88.2	45.8	45.4	3.7	59
		43.8	43.3	277.6	272.4	22	42	81.8	87.0	43.6	43.1		
		45.9	45.6	276.1	271.3	22	52	80.2	85.8	41.5	40.9		
1514	5.1	41.3	40.7	279.8	274.1	22	32	83.3	88.2	45.8	45.4	3.7	59
		43.5	43.0	278.1	272.8	22	42	81.8	87.0	43.6	43.1		
		45.6	45.2	276.6	271.7	22	52	80.2	85.8	41.5	40.9		
710	3.6	51.3	51.9	265.9	262.9	22	43	96.3	99.6	55.8	56.5	4.8	102
		53.5	54.1	264.8	261.2	22	53	95.2	98.8	53.7	54.3		
		55.6	56.3	263.7	260.4	23	3	94.1	98.0	51.5	52.0		
727	4.6	50.6	50.5	273.6	269.5	22	54	86.2	89.8	54.9	54.8	4.4	97
		52.8	52.7	272.2	268.4	23	4	84.9	89.7	52.8	52.5		
		54.9	55.0	270.9	267.4	23	14	83.5	87.6	50.6	50.2		
1522	5.1	45.2	44.7	277.9	272.9	23	4	84.8	89.1	49.5	49.3	4.8	1071
		47.3	46.9	276.4	271.8	23	14	83.3	87.9	47.4	47.0		
		49.5	49.2	275.9	270.7	23	24	81.8	86.8	45.2	44.7		
722	5.1	55.2	55.6	266.8	263.3	23	17	93.7	96.6	59.7	60.1	5.3	1100
		57.4	57.9	265.6	262.5	23	27	92.6	95.7	57.5	57.9		
		59.5	60.1	264.5	261.6	23	37	91.4	94.8	55.3	55.6		
773	5.3	40.1	39.7	277.2	271.2	23	28	81.2	86.3	44.4	43.8	4.8	1071
		42.2	42.0	275.7	270.2	23	38	79.5	85.1	42.3	41.6		
		44.4	44.3	274.2	269.1	23	48	77.8	83.9	40.1	39.3		
1522	5.1	54.9	54.9	271.6	268.1	23	49	88.3	91.3	59.2	59.2	3.2	146
		57.0	57.1	270.3	267.1	23	59	87.0	90.3	57.0	56.9		
		59.2	59.4	269.1	266.1	24	9	85.7	89.2	54.9	54.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT-25 LAT-20	LAT-25 LAT-20	LAT-25 LAT-20	HRS MIN	LAT-25 LAT-20	LAT-25 LAT-20	LAT-25 LAT-20	Z. D.	LAT-25 LAT-20		
762	3.3	52.2	52.3	270.2	266.4	23 59	90.3	93.5	56.9	57.1	3.2	149	
		54.4	54.6	269.2	265.6	0 9	89.2	92.8	54.6	54.7			
		56.7	57.0	268.2	264.9	0 19	88.1	92.0	52.4	52.4			
794	4.5	45.4	44.8	278.8	273.8	0 12	81.1	85.4	49.9	49.3	3.8	127	
		47.6	47.2	277.4	272.8	0 22	79.7	84.3	47.6	46.9			
		49.9	49.5	276.1	271.9	0 32	78.3	83.2	45.4	44.6			
1547	4.8	52.6	52.1	277.9	274.1	0 23	81.8	85.0	57.2	56.7	4.1	154	
		54.9	54.5	276.6	273.1	0 33	80.5	84.0	55.0	54.3			
		57.1	56.8	275.4	272.2	0 43	79.2	83.0	52.8	52.0			
819	3.0	42.2	42.1	273.2	267.7	0 43	85.3	90.0	47.0	46.7	3.2	149	
		44.4	44.5	272.0	266.9	0 53	84.1	89.1	44.7	44.4			
		46.7	46.8	270.9	266.2	1 3	82.7	88.2	42.4	42.0			
1552	4.2	54.7	55.3	265.8	262.4	0 59	94.7	97.6	59.4	59.9	3.3	1144	
		57.0	57.6	264.9	261.7	1 9	93.8	97.0	57.1	57.6			
		59.3	59.9	264.0	261.1	1 19	92.8	96.3	54.8	55.2			
808	3.1	55.7	54.9	280.8	277.3	1 9	81.2	84.1	60.2	59.6	2.9	188	
		57.9	57.2	279.4	276.3	1 19	79.9	83.0	58.0	57.3			
		60.1	59.6	278.2	275.3	1 29	78.6	82.0	55.8	54.9			
818	5.4	52.1	51.9	274.9	271.0	1 19	84.0	87.3	56.7	56.4	4.3	190	
		54.4	54.2	273.7	270.1	1 29	82.8	86.4	54.5	54.0			
		56.7	56.6	272.5	269.2	1 39	81.5	85.4	52.2	51.7			
812	3.8	55.1	55.6	266.4	263.0	1 34	93.1	96.0	59.6	60.0	3.7	219	
		57.4	57.9	265.5	262.3	1 44	92.1	95.3	57.4	57.7			
		59.6	60.2	264.5	261.7	1 54	91.1	94.6	55.1	55.3			
1591	4.9	48.1	47.6	278.1	273.6	1 44	80.9	84.7	52.6	51.9	0.3	194	
		50.3	49.9	276.8	272.6	1 54	79.5	83.7	50.3	49.6			
		52.6	52.3	275.5	271.7	2 4	78.1	82.6	48.1	47.3			
861	4.2	45.7	44.7	275.6	270.6	1 54	86.1	90.4	49.5	49.3	4.3	1146	
		47.2	47.7	274.3	269.7	2 4	84.9	89.6	47.2	47.0			
		49.5	49.4	273.1	268.9	2 14	83.7	88.7	45.0	44.6			
828	4.4	57.3	57.6	269.0	265.8	2 6	90.1	92.7	62.0	62.1	5.4	1171	
		59.6	59.9	268.0	265.1	2 16	89.0	91.9	59.7	59.8			
		61.9	62.2	267.0	264.3	2 26	87.9	91.1	57.5	57.4			
866	3.5	48.0	48.1	270.7	266.2	2 16	89.0	92.8	52.5	52.6	3.8	226	
		50.3	50.5	269.6	265.5	2 26	87.9	92.1	50.2	50.2			
		52.5	52.8	268.6	264.8	2 36	86.7	91.3	47.9	47.9			
1621	5.3	38.7	38.9	271.4	265.2	2 28	89.8	95.1	43.2	43.4	2.7	207	
		41.0	41.2	270.3	264.6	2 38	88.7	94.5	40.9	41.1			
		43.2	43.5	269.3	264.0	2 48	87.6	93.8	38.7	38.7			
1608	4.5	57.7	50.1	278.8	274.7	2 38	81.9	85.4	55.2	54.7	5.1	1170	
		53.0	52.5	277.5	273.7	2 48	80.6	84.4	53.0	52.4			
		55.2	54.8	276.3	272.8	2 58	79.2	83.3	50.8	50.0			
966	3.5	55.2	55.6	267.4	264.0	2 48	94.2	97.1	60.0	60.5	4.1	271	
		57.5	58.0	266.4	263.3	2 58	93.2	96.4	57.7	58.1			
		59.8	60.3	265.5	262.6	3 8	92.3	95.7	55.5	55.8			
1621	5.3	47.1	47.5	267.6	263.0	3 5	92.0	95.9	51.6	51.9	1.6	257	
		49.4	49.8	266.7	262.4	3 15	91.0	95.2	49.3	49.6			
		51.6	52.2	265.7	261.8	3 25	89.9	94.6	47.0	47.2			
1621	5.3	49.4	49.8	266.7	262.4	3 15	91.6	95.2	53.9	54.2	4.1	271	
		51.6	52.2	265.7	261.8	3 25	90.5	94.5	51.6	51.8			
		53.9	54.5	264.8	261.2	3 35	89.5	93.8	49.3	49.5			
894	4.6	55.0	55.2	269.2	265.7	3 33	92.8	95.6	59.7	60.1	5.1	1202	
		57.3	57.5	268.2	265.0	3 43	91.7	94.9	57.5	57.8			
		59.5	59.9	267.2	264.3	3 53	90.7	94.2	55.2	55.4			
22	2.2	42.6	42.8	270.1	264.6	3 44	88.5	93.1	47.3	47.4	4.1	271	
		44.8	45.1	269.0	264.0	3 54	87.3	92.3	45.0	45.0			
		47.1	47.5	268.0	263.4	4 4	86.2	91.6	42.8	42.7			
905	4.6	55.2	55.7	265.5	262.1	3 59	94.2	97.1	59.6	60.1	5.1	311	
		57.4	58.0	264.6	261.4	4 9	93.2	96.4	57.4	57.8			
		59.7	60.4	263.7	260.8	4 19	92.3	95.7	55.1	55.4			
40	3.6	46.7	46.1	279.7	275.0	4 15	81.8	85.9	51.1	50.5	4.1	293	
		49.0	48.4	278.3	273.9	4 25	80.5	84.8	48.8	48.2			
		51.2	50.8	277.0	273.0	4 35	79.0	83.8	46.6	45.9			
59	3.7	41.0	40.9	274.1	268.3	4 35	86.1	91.0	45.7	45.6	5.1	1202	
		43.3	43.3	272.9	267.6	4 45	84.8	90.1	43.4	43.2			
		45.6	45.6	271.7	266.8	4 55	83.5	89.2	41.2	40.9			
71	4.2	39.3	39.9	266.6	260.6	4 50	91.1	96.2	44.2	44.5	4.6	1212	
		41.6	42.2	265.7	260.2	5 0	90.0	95.6	41.9	42.2			
		43.9	44.5	264.8	259.7	5 10	88.9	95.0	39.7	39.8			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	LAT-25 LAT-20	LAT-25 LAT-20	LAT-25 LAT-20	HRS MIN	LAT-25 LAT-20	LAT-25 LAT-20	LAT-25 LAT-20	Z.D.	LAT-25 LAT-20		
59	3.7	54.0	54.3	267.8	264.2	5 32	92.0	95.0	58.8	59.1	5.0	364	
		56.2	56.6	266.9	263.5	5 42	91.0	94.3	56.5	56.7			
		58.5	59.0	265.9	262.9	5 52	89.9	93.5	54.2	54.4			
1071	4.8	48.8	48.8	271.2	266.8	5 56	89.5	93.2	53.3	53.4	5.0	364	
		51.0	51.2	270.1	266.1	6 6	88.4	92.4	51.1	51.1			
		53.3	53.5	269.1	265.4	6 16	87.3	91.7	48.8	48.7			
1066	4.9	53.7	53.6	272.8	269.1	6 7	89.3	92.4	58.4	58.5	3.8	381	
		56.0	56.0	271.7	268.3	6 17	88.2	91.6	56.1	56.1			
		58.2	58.3	270.6	267.5	6 27	87.1	90.8	53.9	53.8			
97	4.4	51.5	51.5	271.8	267.8	6 18	88.1	91.5	55.9	55.9	3.8	381	
		53.8	53.9	270.7	267.0	6 28	87.0	90.7	53.7	53.6			
		56.0	56.2	269.6	266.3	6 38	85.8	89.8	51.4	51.2			
1091	4.9	50.6	50.0	279.3	275.2	6 37	81.9	85.5	54.9	54.4	5.4	1263	
		52.9	52.3	278.0	274.2	6 47	80.6	84.4	52.7	52.0			
		55.1	54.7	276.7	273.2	6 57	79.2	83.4	50.5	49.7			
149	3.2	42.4	42.0	277.3	271.8	6 51	84.5	89.1	47.0	46.7	4.7	1261	
		44.7	44.4	276.0	270.9	7 1	83.2	88.2	44.7	44.3			
		46.9	46.7	274.7	270.0	7 11	81.8	87.3	42.5	42.0			
1100	5.3	48.7	49.0	269.1	263.8	7 3	91.9	95.6	53.2	53.5	3.3	410	
		50.9	51.3	267.2	263.1	7 13	90.9	94.9	50.9	51.2			
		53.2	53.7	266.2	262.5	7 23	89.8	94.2	48.7	48.9			
172	4.0	38.5	38.0	278.5	272.2	7 15	81.0	86.4	43.1	42.5	3.8	381	
		40.7	40.4	277.1	271.2	7 25	79.6	85.4	40.8	40.2			
		43.0	42.7	275.7	270.3	7 35	78.1	84.2	38.6	37.8			
135	3.7	55.8	55.5	275.1	271.7	7 29	87.0	89.9	60.3	60.2	4.8	1299	
		58.0	57.8	274.0	270.8	7 39	85.9	89.0	58.1	57.8			
		60.3	60.2	272.8	270.0	7 49	84.7	88.1	55.8	55.5			
1144	3.3	37.8	37.6	275.6	269.1	7 50	86.8	92.3	42.6	42.5	3.3	410	
		40.1	40.0	274.3	268.3	8 0	85.6	91.5	40.3	40.2			
		42.4	42.3	273.1	267.6	8 10	84.3	90.7	38.0	37.8			
1144	3.3	41.5	41.4	273.6	267.9	8 6	86.5	91.3	46.2	46.1	3.8	426	
		43.7	43.7	272.4	267.1	8 16	85.3	90.5	43.9	43.7			
		46.0	46.1	271.2	266.4	8 26	84.0	89.7	41.6	41.4			
207	2.7	39.2	39.3	272.1	266.0	8 18	89.7	94.9	43.7	43.9	4.1	431	
		41.4	41.6	271.0	265.4	8 28	88.6	94.2	41.5	41.6			
		43.7	43.9	269.9	264.7	8 38	87.4	93.6	39.2	39.2			
207	2.7	42.8	43.0	270.4	265.0	8 34	90.6	95.2	47.3	47.6	5.2	1309	
		45.1	45.3	269.3	264.3	8 44	89.5	94.5	45.1	45.2			
		47.3	47.7	268.3	263.7	8 54	88.4	93.8	42.8	42.9			
207	2.7	45.1	45.3	269.3	264.3	8 44	92.0	96.3	49.4	49.8	2.8	457	
		47.3	47.7	268.3	263.7	8 54	91.0	95.7	47.1	47.4			
		49.6	50.0	267.3	263.1	9 4	90.0	95.0	44.9	45.1			
195	3.7	57.1	56.6	278.3	275.0	9 4	82.4	95.1	61.7	61.1	4.5	490	
		59.4	58.9	277.1	274.1	9 14	81.1	84.1	59.4	58.8			
		61.6	61.2	275.8	273.1	9 24	79.9	83.1	57.2	56.5			
243	2.0	41.0	41.1	271.1	265.3	9 16	88.9	93.7	45.7	45.8	3.1	465	
		43.2	43.5	270.0	264.7	9 26	87.7	93.0	43.4	43.4			
		45.5	45.8	268.9	264.1	9 36	86.6	92.3	41.1	41.1			
1171	5.4	46.1	45.6	278.2	273.4	9 30	81.5	85.6	50.7	50.1	4.9	1335	
		48.3	47.9	276.9	272.4	9 40	80.1	84.5	48.4	47.7			
		50.6	50.3	275.6	271.5	9 50	78.7	83.5	46.2	45.4			
1171	5.4	49.2	48.9	276.4	272.0	9 44	85.5	89.1	53.8	53.5	1.2	498	
		51.5	51.2	275.1	271.1	9 54	84.2	88.2	51.5	51.2			
		53.7	53.6	273.9	270.3	10 4	83.0	87.3	49.3	48.9			
1171	5.4	51.5	51.2	275.1	271.1	9 54	83.5	86.9	56.2	55.8	5.2	1355	
		53.7	53.6	273.9	270.3	10 4	82.2	85.9	54.0	53.5			
		56.0	55.9	272.8	269.4	10 14	80.9	84.9	51.7	51.1			
1170	5.1	57.2	56.7	277.0	273.8	10 8	83.1	85.8	61.9	61.5	4.2	525	
		59.4	59.0	275.8	272.8	10 18	81.9	84.8	59.7	59.1			
		61.7	61.4	274.6	271.9	10 28	80.6	83.8	57.5	56.8			
243	2.0	57.0	57.7	264.1	260.9	10 27	95.3	98.0	61.6	62.2	2.9	548	
		59.3	60.0	263.2	260.3	10 37	94.4	97.3	59.4	59.9			
		61.5	62.3	262.3	259.7	10 47	93.4	96.6	57.1	57.6			
257	1.6	54.6	55.1	266.7	263.2	10 37	94.4	97.3	59.4	59.9	2.9	548	
		56.9	57.4	265.8	262.5	10 47	93.4	96.6	57.1	57.6			
		59.1	59.7	264.8	261.9	10 57	92.5	95.9	54.9	55.2			
1202	5.1	45.0	44.8	274.3	269.3	10 52	86.4	90.7	49.8	49.6	4.6	1371	
		47.3	47.2	273.1	268.5	11 2	85.2	89.8	47.5	47.3			
		49.5	49.5	272.0	267.7	11 12	83.9	88.9	45.2	44.9			

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT-25	LAT-20	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20	LAT-25	LAT-20		
311	5.1	41.8	41.6	274.2	268.6	11	7	84.6	89.4	46.4	46.1	4.6	1371
		44.0	44.0	273.0	267.8	11	17	83.3	88.5	44.1	43.8		
		46.3	46.3	271.8	267.1	11	27	81.9	87.5	41.9	41.4		
293	4.1	53.9	53.4	276.6	272.9	11	18	85.6	88.7	58.5	58.2	2.7	564
		56.1	55.8	275.4	272.0	11	28	84.4	87.8	56.2	55.9		
		58.4	58.1	274.2	271.1	11	38	83.2	86.9	54.0	53.6		
311	5.1	50.1	50.3	270.0	265.8	11	44	90.8	94.3	54.8	55.0	4.0	577
		52.4	52.7	268.9	265.1	11	54	89.7	93.6	52.5	52.6		
		54.7	55.0	267.9	264.4	12	4	88.7	92.8	50.2	50.3		
311	5.1	52.9	53.1	268.7	265.0	11	56	91.3	94.5	57.3	57.6	4.7	1417
		55.1	55.5	267.7	262.3	12	6	90.3	93.8	55.1	55.3		
		57.4	57.8	266.7	263.6	12	16	89.2	93.0	52.8	52.9		
1247	5.2	40.2	40.8	266.5	260.6	12	27	93.3	98.2	44.9	45.4	5.0	1413
		42.5	43.1	265.6	260.2	12	37	92.3	97.7	42.7	43.1		
		44.7	45.4	264.7	259.8	12	47	91.3	97.2	40.4	40.8		
364	5.0	43.2	42.9	275.7	270.4	12	38	86.8	91.3	47.8	47.7	4.7	1417
		45.5	45.3	274.5	269.5	12	48	85.6	90.5	45.6	45.4		
		47.7	47.6	273.3	268.7	12	58	84.3	89.6	43.3	43.1		
373	5.2	40.6	40.9	269.7	263.9	12	48	88.8	93.7	45.3	45.4	5.5	1419
		42.9	43.3	268.6	263.3	12	58	87.6	93.0	43.0	43.0		
		45.2	45.6	267.7	262.7	13	8	86.5	92.3	40.8	40.7		
373	5.2	45.2	45.6	267.7	262.7	13	8	92.5	96.7	49.7	50.1	5.0	624
		47.4	47.9	266.7	262.2	13	18	91.6	96.1	47.4	47.8		
		49.7	50.3	265.8	261.6	13	28	90.5	95.5	45.2	45.4		
381	3.8	46.6	46.2	276.8	272.1	13	20	83.7	87.7	51.3	51.0	4.7	1438
		48.9	48.6	275.5	271.1	13	30	82.4	86.8	49.1	48.6		
		51.1	50.9	274.3	270.3	13	40	81.1	85.8	46.8	46.3		
1283	4.2	37.9	38.0	272.2	265.8	13	40	89.3	94.7	42.4	42.6	5.0	624
		40.2	40.4	271.0	265.1	13	50	88.2	94.1	40.2	40.3		
		42.5	42.7	270.0	264.5	14	0	87.0	93.4	37.9	37.9		
389	4.1	48.7	49.0	269.2	264.9	13	52	91.0	94.7	53.2	53.4	3.6	658
		51.0	51.3	268.2	264.2	14	2	89.9	94.0	50.9	51.1		
		53.3	53.7	267.2	263.5	14	12	88.8	93.2	48.6	48.7		
410	3.3	46.1	46.2	271.4	266.6	14	3	89.8	93.9	50.7	50.8	3.6	658
		48.4	48.6	270.3	265.9	14	13	88.7	93.2	48.4	48.5		
		50.7	50.9	269.2	265.2	14	23	87.6	92.4	46.2	46.2		
389	4.1	54.6	55.1	266.6	263.1	14	18	92.6	95.6	59.3	59.6	4.7	696
		56.9	57.4	265.7	262.5	14	28	91.6	94.8	57.0	57.3		
		59.2	59.7	264.7	261.8	14	38	90.6	94.1	54.7	54.9		
410	3.3	52.0	52.3	268.6	264.8	14	29	91.5	94.8	56.8	57.0	4.7	696
		54.3	54.6	267.6	264.1	14	39	90.5	94.0	54.5	54.7		
		56.5	57.0	266.7	263.4	14	49	89.4	93.3	52.2	52.4		
426	3.8	48.9	49.0	272.0	267.7	14	43	90.1	93.7	53.6	53.8	4.7	696
		51.2	51.3	270.9	266.9	14	53	89.0	93.0	51.3	51.4		
		53.5	53.6	269.9	266.2	15	3	87.9	92.2	49.1	49.1		
1283	4.2	56.3	56.9	264.1	260.8	15	1	95.1	97.8	60.9	61.5	4.6	727
		58.5	59.2	263.2	260.2	15	11	94.1	97.1	58.7	59.1		
		60.8	61.6	262.3	259.6	15	21	93.2	96.4	56.4	56.8		
431	4.1	53.5	54.0	266.0	262.4	15	13	93.9	97.0	58.2	58.7	4.6	727
		55.8	56.3	265.1	261.7	15	23	93.0	96.3	55.9	56.3		
		58.0	58.7	264.2	261.1	15	33	92.0	95.6	53.7	54.0		
1301	4.9	51.1	51.6	266.1	262.2	15	23	93.0	96.3	55.9	56.3	4.6	727
		53.3	53.9	265.2	261.6	15	33	92.0	95.6	53.7	54.0		
		55.6	56.2	264.3	260.9	15	43	91.0	94.9	51.4	51.7		
1301	4.9	53.3	53.9	265.2	261.6	15	33	94.2	97.3	57.9	58.4	5.5	1512
		55.6	56.2	264.3	260.9	15	43	93.3	96.6	55.6	56.0		
		57.8	58.6	263.4	260.3	15	53	92.3	96.0	53.3	53.7		
1301	4.9	53.6	54.1	265.1	261.5	15	34	94.1	97.2	58.1	58.6	5.1	1514
		55.8	56.5	264.2	260.9	15	44	93.1	96.5	55.8	56.3		
		58.1	58.8	263.3	260.3	15	54	92.2	95.8	53.6	53.9		
465	3.1	46.4	46.6	270.8	266.0	15	45	90.8	94.8	51.0	51.2	4.6	727
		48.7	48.9	269.7	265.3	15	55	89.7	94.1	48.7	48.9		
		51.0	51.3	268.7	264.6	16	5	88.6	93.4	46.4	46.5		
457	2.8	52.0	52.4	266.8	263.0	15	57	92.7	95.9	56.6	57.0	5.1	1522
		54.3	54.8	265.9	262.3	16	7	91.7	95.2	54.3	54.6		
		56.5	57.1	265.0	261.7	16	17	90.7	94.5	52.1	52.3		
457	2.8	54.7	55.2	265.7	262.2	16	9	93.0	95.9	59.4	59.7	3.3	762
		57.0	57.6	264.8	261.6	16	19	92.0	95.2	57.1	57.4		
		59.2	59.9	263.9	260.9	16	29	91.0	94.5	54.8	55.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20	Z.D.	Z.D.		
1345	4.8	42.6	42.8	269.9	264.5	16	19	89.6	94.2	47.4	47.6	5.5	1512
		44.8	45.2	268.9	263.9	16	29	88.5	93.5	45.2	45.3		
		47.1	47.5	267.9	263.3	16	39	87.4	92.8	42.9	42.9		
1345	4.8	42.8	43.1	269.8	264.4	16	20	89.5	94.0	47.7	47.8	5.1	1514
		45.1	45.4	268.8	263.8	16	30	88.4	93.3	45.4	45.5		
		47.3	47.7	267.8	263.2	16	40	87.2	92.6	43.2	43.1		
1345	4.8	44.8	45.2	268.9	263.9	16	29	89.4	93.7	49.4	49.5	5.1	1522
		47.1	47.5	267.9	263.3	16	39	88.3	92.9	47.1	47.1		
		49.4	49.8	266.9	262.7	16	49	87.2	92.2	44.8	44.8		
1335	4.9	56.6	56.3	275.2	271.9	16	43	86.6	89.4	61.0	60.8	4.8	1547
		58.8	58.6	274.0	271.0	16	53	85.4	88.5	58.7	58.5		
		61.1	61.0	272.9	270.1	17	3	84.2	87.6	56.5	56.1		
498	1.2	51.9	51.6	275.5	271.6	16	56	85.0	88.3	56.7	56.4	3.8	781
		54.2	54.7	274.3	270.7	17	6	83.8	87.4	54.5	54.1		
		56.4	56.3	273.2	269.8	17	16	82.6	86.5	52.2	51.8		
1371	4.6	41.6	41.2	278.2	272.6	17	8	83.5	88.3	46.1	45.8	3.8	761
		43.9	43.5	276.9	271.6	17	18	82.0	87.3	43.9	43.4		
		46.1	45.9	275.6	270.7	17	28	80.7	86.3	41.7	41.1		
1371	4.6	41.6	41.2	278.2	272.6	17	8	83.4	88.2	46.1	45.7	4.6	1527
		43.9	43.5	276.9	271.6	17	18	82.0	87.2	43.8	43.4		
		46.1	45.9	275.6	270.7	17	28	80.6	86.2	41.6	41.0		
1345	4.8	56.1	56.8	264.1	260.8	17	19	95.9	98.7	60.7	61.4	3.8	812
		59.4	59.1	263.2	260.2	17	29	95.0	98.0	58.5	59.1		
		60.6	61.4	262.4	259.6	17	39	94.1	97.4	56.2	56.7		
1355	5.2	56.6	56.2	276.3	273.9	17	29	85.3	88.1	61.3	61.0	4.8	1565
		58.9	58.6	275.1	272.9	17	39	84.1	87.2	59.0	58.6		
		61.2	60.9	273.9	271.2	17	49	82.9	86.2	56.7	56.3		
1371	4.6	49.1	48.9	274.0	269.6	17	41	87.9	91.6	53.5	53.5	5.5	1562
		51.3	51.3	272.8	268.8	17	51	86.7	90.8	51.2	51.1		
		53.6	53.6	271.7	268.0	18	1	85.6	89.9	49.0	48.8		
1371	4.6	51.8	51.7	272.6	268.6	17	53	87.3	90.7	56.4	56.3	5.4	818
		54.0	54.1	271.4	267.8	18	3	86.2	89.8	54.2	54.0		
		56.3	56.4	270.4	267.0	18	13	85.0	88.9	51.9	51.6		
523	4.3	57.3	57.1	273.9	270.7	18	6	85.5	88.2	61.8	61.5	4.3	847
		59.6	59.5	272.7	269.8	18	16	84.3	87.3	59.5	59.1		
		61.8	61.8	271.6	269.0	18	26	83.1	86.3	57.2	56.8		
559	4.7	43.1	43.6	267.3	262.1	18	17	90.3	94.8	47.6	47.9	3.8	812
		45.4	45.9	266.4	261.5	18	27	89.2	94.2	45.4	45.5		
		47.6	48.2	265.5	261.0	18	37	88.1	93.5	43.1	43.2		
1394	5.4	52.1	51.5	279.1	275.1	18	28	82.9	86.1	56.8	56.3	4.3	840
		54.4	53.9	277.7	274.1	18	38	81.6	85.2	54.5	54.0		
		56.6	56.2	276.5	273.2	18	48	80.3	84.1	52.3	51.6		
548	2.9	54.5	54.9	267.7	264.2	18	41	91.4	94.4	59.0	59.3	4.2	861
		56.8	57.2	266.7	263.5	18	51	90.4	93.6	56.7	56.9		
		59.0	59.5	265.8	262.9	19	1	89.3	92.9	54.5	54.6		
1417	4.7	42.2	41.8	276.4	270.8	18	51	85.9	90.6	46.9	46.7	4.4	828
		44.4	44.2	275.1	270.0	19	1	84.6	89.7	44.6	44.4		
		46.7	46.5	273.9	269.1	19	11	83.3	88.8	42.4	42.0		
577	4.0	49.6	49.6	271.6	267.4	19	2	89.2	92.8	54.2	54.3	4.2	861
		51.9	52.0	270.6	266.6	19	12	88.1	92.0	52.0	52.0		
		54.1	54.3	269.5	265.9	19	22	87.0	91.2	49.7	49.6		
1417	4.7	47.1	47.0	273.6	269.0	19	13	88.0	91.9	51.7	51.7	4.2	861
		49.4	49.4	272.4	268.2	19	23	86.9	91.1	49.5	49.4		
		51.7	51.7	271.3	267.4	19	33	85.7	90.3	47.2	47.1		
577	4.0	55.5	55.7	268.0	265.5	19	28	93.1	95.9	60.1	60.4	4.6	894
		57.7	58.1	267.9	264.7	19	38	92.1	95.2	57.8	58.1		
		60.0	60.4	266.9	264.0	19	48	91.1	94.5	55.5	55.8		
624	5.0	41.8	42.0	271.0	265.5	19	38	88.5	93.3	46.5	46.5	3.5	866
		44.1	44.3	270.0	264.8	19	48	87.4	92.6	44.2	44.2		
		46.3	46.6	268.9	264.2	19	58	86.2	91.8	41.9	41.8		
597	2.9	53.2	54.0	263.3	259.6	19	55	95.6	98.7	57.8	58.4	4.6	905
		55.5	56.3	262.4	259.1	20	5	94.6	98.0	55.5	56.0		
		57.7	58.6	261.6	258.5	20	15	93.7	97.4	53.2	53.7		
624	5.0	43.5	49.9	267.5	263.3	20	12	94.0	97.6	53.9	54.4	4.6	905
		51.8	52.2	266.6	262.7	20	22	93.0	96.9	51.7	52.1		
		54.0	54.6	265.6	262.1	20	32	92.1	96.3	49.4	49.8		
658	3.6	41.7	41.5	274.8	269.2	20	30	86.4	91.3	46.6	45.9	4.6	894
		43.9	43.8	273.6	268.4	20	40	85.2	90.5	43.8	43.6		
		46.2	46.2	272.4	267.6	20	50	83.9	89.6	41.5	41.2		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-25	LAT-20	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20	Z. D. LAT-25	LAT-20		
682	4.0	42.9	43.5	265.4	260.1	21	19	92.2	96.7	47.6	48.0	2.2	22
		45.1	45.8	264.5	259.7	21	29	91.2	96.1	45.3	45.6		
		47.4	48.1	263.7	259.2	21	39	90.2	95.5	43.0	43.3		
673	3.5	52.9	52.5	276.8	273.0	21	32	83.7	86.9	57.4	56.9	3.8	47
		55.2	54.9	275.5	272.0	21	42	82.5	86.0	55.1	54.6		
		57.4	57.2	274.3	271.1	21	52	81.2	85.0	52.9	52.3		
1486	4.7	48.2	47.5	280.5	276.1	21	53	81.0	84.9	52.6	52.0	3.8	47
		50.5	49.9	279.2	275.0	22	3	79.7	83.8	50.4	49.7		
		52.7	52.2	277.8	274.0	22	13	78.2	82.7	48.2	47.4		
696	4.7	54.7	54.9	269.4	265.9	22	18	89.9	92.9	59.4	59.5	4.9	1066
		57.0	57.2	268.4	265.2	22	28	88.9	92.1	57.1	57.1		
		59.2	59.6	267.4	264.4	22	38	87.8	91.3	54.8	54.8		
1512	5.5	41.1	41.0	273.6	267.8	22	32	88.2	93.1	45.4	45.5	3.7	59
		43.3	43.4	272.4	267.1	22	42	87.0	92.4	43.1	43.1		
		45.6	45.7	271.3	266.4	22	52	85.8	91.6	40.9	40.8		
1514	5.1	40.7	40.6	274.1	268.2	22	32	88.2	93.1	45.4	45.5	3.7	59
		43.0	43.0	272.8	267.5	22	42	87.0	92.4	43.1	43.1		
		45.2	45.3	271.7	266.7	22	52	85.8	91.6	40.9	40.8		
727	4.6	48.7	48.8	270.3	265.9	22	46	91.0	94.7	53.4	53.6	4.8	1071
		50.9	51.2	269.3	265.2	22	56	89.9	93.9	51.1	51.3		
		53.2	53.5	268.2	264.5	23	6	88.8	93.2	48.8	48.9		
1512	5.5	46.5	46.6	270.8	266.1	22	56	89.9	93.9	51.1	51.3	4.8	1071
		48.8	49.0	269.8	265.4	23	6	88.8	93.2	48.8	48.9		
		51.0	51.3	268.7	264.7	23	16	87.7	92.5	46.6	46.6		
1514	5.1	46.4	46.5	271.1	266.4	22	57	89.8	93.9	50.9	51.0	4.9	1071
		48.6	48.8	270.1	265.7	23	7	88.7	93.1	48.6	48.7		
		50.9	51.2	269.0	265.0	23	17	87.6	92.4	46.3	46.3		
1522	5.1	46.3	46.3	272.1	267.3	23	11	87.9	92.0	50.9	50.9	4.4	57
		48.5	48.6	271.0	266.6	23	21	86.8	91.2	48.6	48.5		
		50.8	51.0	269.9	265.9	23	31	85.6	90.4	46.4	46.2		
762	3.3	43.8	43.6	274.5	269.2	23	22	86.7	91.1	48.4	48.3	4.4	97
		46.0	46.0	273.3	268.4	23	32	85.5	90.3	46.2	46.0		
		48.3	48.3	272.1	267.7	23	42	84.2	89.4	43.9	43.6		
1517	5.1	52.3	53.0	263.6	259.8	23	32	95.3	98.5	56.7	57.3	5.3	1107
		54.6	55.3	262.7	259.2	23	42	94.3	97.9	54.5	55.0		
		56.8	57.7	261.8	258.7	23	52	93.4	97.2	52.2	52.7		
1522	5.1	54.6	55.0	268.2	264.7	23	48	91.4	94.4	59.4	59.7	3.2	149
		56.9	57.3	267.2	264.0	23	58	90.4	93.6	57.1	57.3		
		59.2	59.6	266.2	263.3	24	8	89.3	92.8	54.9	55.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15	Z. D. LAT-20	LAT-15		
762	3.3	52.3	52.8	266.4	262.6	23	59	93.5	96.7	57.1	57.5	3.2	149
		54.6	55.2	265.6	262.1	0	9	92.8	96.3	54.7	55.1		
		57.0	57.6	264.9	261.7	0	19	92.0	95.8	52.4	52.7		
794	4.5	44.6	44.5	273.9	268.8	0	11	85.5	89.7	49.5	49.3	3.8	127
		46.9	46.9	272.9	268.2	0	21	84.4	89.1	47.2	46.9		
		49.3	49.3	272.0	267.7	0	31	83.3	88.4	44.8	44.5		
1547	4.8	51.9	51.7	274.2	270.2	0	22	85.1	89.4	56.9	56.6	4.1	154
		54.2	54.1	273.2	269.6	0	32	84.1	87.7	54.6	54.2		
		56.6	56.5	272.3	269.0	0	42	83.1	87.0	52.2	51.8		
1543	4.6	56.7	56.2	277.2	273.9	0	32	82.8	85.5	61.5	61.0	4.1	169
		59.9	58.6	276.2	273.2	0	42	81.7	84.7	59.2	58.6		
		61.3	61.9	275.2	272.5	0	52	80.6	83.9	56.8	56.2		
819	3.9	41.9	42.3	267.7	262.2	0	42	90.1	94.7	47.0	47.2	3.2	149
		44.2	44.7	267.0	261.9	0	52	89.2	94.3	44.6	44.8		
		46.6	47.1	266.3	261.6	1	2	88.3	93.8	42.3	42.4		
808	3.1	51.4	51.8	279.9	275.9	0	54	80.4	83.8	56.4	55.7	4.1	169
		53.9	53.2	277.9	274.2	1	4	79.3	82.9	54.1	53.3		
		56.1	55.6	276.8	273.4	1	14	78.1	82.0	51.8	50.9		
840	4.3	42.4	41.8	280.5	275.0	1	4	80.6	85.2	47.1	46.5	4.1	154
		44.8	44.2	279.2	274.1	1	14	79.3	84.4	44.8	44.1		
		47.1	46.6	278.9	273.3	1	24	78.0	83.4	42.5	41.7		
812	3.9	51.4	52.1	264.2	260.2	1	16	96.5	99.8	55.9	56.6	3.3	1144
		53.7	54.4	263.5	259.9	1	26	95.8	99.4	53.6	54.3		
		56.9	56.8	262.8	259.6	1	36	95.1	99.1	51.3	51.9		
828	4.4	49.6	49.9	268.4	264.2	1	32	92.2	95.8	54.5	54.8	4.3	1146
		52.9	52.9	267.6	263.8	1	42	91.4	95.3	52.1	52.4		
		54.9	54.7	266.9	263.3	1	52	90.6	94.8	49.8	50.0		
919	3.9	55.9	56.6	263.5	260.2	1	42	95.4	98.1	60.5	61.1	3.9	226
		58.3	59.9	262.9	259.8	1	52	94.6	97.7	58.2	58.7		
		60.6	61.4	262.2	259.4	2	2	93.9	97.2	55.8	56.3		
961	4.2	44.7	44.9	270.6	265.5	1	54	90.4	94.7	49.3	49.5	4.3	1146
		47.9	47.9	269.7	265.1	2	4	89.6	94.2	47.0	47.1		
		49.4	49.7	268.9	264.6	2	14	88.7	93.7	44.6	44.7		
964	3.8	49.1	47.6	277.8	273.3	2	4	82.1	85.6	52.9	52.4	2.9	209
		50.5	50.1	276.7	272.5	2	14	81.9	85.1	50.6	50.0		
		52.8	52.5	275.6	271.8	2	24	79.8	84.3	48.3	47.6		
866	3.5	47.9	48.4	266.3	261.8	2	15	92.9	96.7	52.8	53.2	3.8	226
		50.2	50.9	265.6	261.5	2	25	92.1	96.2	50.4	50.8		
		52.6	53.9	264.9	261.1	2	35	91.3	95.8	48.1	48.4		
861	4.2	52.4	52.9	267.8	264.3	2	27	91.0	94.3	57.2	57.4	5.4	1171
		54.8	55.2	267.0	263.6	2	37	90.2	93.7	54.9	55.9		
		57.1	57.6	266.3	263.1	2	47	89.3	93.2	52.5	52.6		
1608	4.5	50.1	49.9	274.7	270.5	2	39	85.4	88.9	54.7	54.4	5.1	1170
		52.5	52.3	273.7	269.9	2	49	84.4	88.2	52.4	52.0		
		54.8	54.7	272.8	269.2	2	58	83.3	87.5	50.0	49.6		
866	3.5	55.6	56.3	264.9	260.6	2	48	97.1	99.8	60.5	61.2	4.1	271
		58.9	58.7	263.3	260.2	2	58	96.4	99.4	58.1	58.8		
		62.3	61.1	262.6	259.3	3	8	95.7	99.0	55.8	56.4		
1617	4.4	57.1	56.8	275.7	272.5	3	2	84.0	86.7	62.1	61.7	5.0	1186
		59.4	59.2	274.7	271.8	3	12	83.0	85.9	59.8	59.3		
		61.9	61.6	273.9	271.1	3	22	82.0	85.2	57.4	56.9		
965	4.6	45.2	45.9	264.9	260.1	3	14	95.3	99.5	49.8	50.5	1.6	257
		47.6	48.2	264.3	259.8	3	24	94.6	99.1	47.5	48.1		
		49.9	50.6	263.7	259.5	3	34	93.9	98.9	45.1	45.7		
37	5.2	78.8	78.4	277.8	271.5	3	26	80.0	85.3	43.5	42.9	5.1	1170
		41.2	42.8	276.6	271.8	3	36	78.7	84.4	41.2	40.5		
		43.5	43.2	275.5	270.2	3	46	77.3	83.5	38.9	38.1		
1637	4.7	54.9	54.4	276.7	273.2	3	40	82.8	85.7	59.6	59.1	5.2	289
		57.2	56.8	275.7	272.5	3	50	81.7	84.9	57.3	56.7		
		59.5	59.3	274.7	271.8	4	0	80.6	84.1	55.0	54.3		
1002	4.7	54.4	53.9	277.3	273.7	3	41	82.7	85.6	59.4	58.9	5.2	289
		56.7	56.3	276.3	273.0	3	51	81.6	84.9	57.0	56.5		
		59.1	58.8	275.3	272.3	4	1	80.5	84.0	54.7	54.0		
1637	4.7	57.4	57.1	275.6	272.4	3	51	82.4	85.1	62.4	62.0	5.1	304
		59.8	59.5	274.6	271.7	4	1	82.4	85.3	60.1	59.6		
		62.1	61.9	273.7	271.2	4	11	81.4	84.5	57.8	57.2		
1002	4.7	57.2	56.8	276.1	272.9	3	53	83.2	85.9	62.0	61.5	5.1	304
		59.6	59.2	275.1	272.1	4	3	82.2	85.2	59.6	59.1		
		61.9	61.7	274.1	271.4	4	13	81.2	84.4	57.3	56.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15	Z.D.	Z.D.		
40	3.6	45.9	45.6	275.1	270.2	4	14	86.0	90.1	50.8	50.6	4.1	293
		48.2	48.1	274.0	269.6	4	24	85.0	89.4	48.4	48.2		
		50.6	50.5	273.1	268.9	4	34	83.9	88.7	46.1	45.8		
59	3.7	40.9	41.3	268.3	262.6	4	35	91.0	95.8	45.6	45.9	5.1	1202
		43.3	43.7	267.6	262.3	4	45	90.1	95.4	43.2	43.4		
		45.6	46.1	266.8	262.0	4	55	89.2	95.0	40.9	41.0		
59	3.7	44.0	44.4	267.3	262.2	4	48	93.7	98.0	48.6	49.2	5.1	311
		46.3	46.8	266.6	261.9	4	58	92.9	97.7	46.3	46.8		
		48.7	49.2	265.9	261.6	5	8	92.2	97.3	44.0	44.4		
59	3.7	54.3	55.0	264.2	260.7	5	32	95.0	97.9	59.1	59.6	5.0	364
		56.6	57.3	263.5	260.3	5	42	94.3	97.5	56.7	57.2		
		59.0	59.7	262.9	259.9	5	52	93.5	97.1	54.4	54.8		
1071	4.8	48.8	49.3	266.8	262.5	5	56	93.2	96.9	53.4	53.9	5.0	364
		51.2	51.7	266.1	262.1	6	6	92.4	96.4	51.1	51.5		
		53.5	54.1	265.4	261.7	6	16	91.7	96.0	48.7	49.1		
1066	4.9	53.6	53.9	269.1	265.5	6	7	92.4	95.4	58.5	58.8	3.8	381
		56.0	56.3	268.3	265.0	6	17	91.6	94.9	56.1	56.4		
		58.3	58.7	267.5	264.4	6	27	90.8	94.4	53.8	54.0		
97	4.4	51.3	51.6	267.9	263.9	6	17	91.6	94.9	56.1	56.4	3.8	381
		53.6	54.0	267.1	263.5	6	27	90.8	94.4	53.8	54.0		
		56.0	56.4	266.3	263.0	6	37	89.9	93.9	51.4	51.6		
1080	5.3	55.3	54.6	279.6	276.1	6	33	81.1	84.0	59.9	59.3	5.2	1270
		57.6	57.0	278.5	275.3	6	43	80.0	83.2	57.6	56.9		
		60.0	59.4	277.4	274.5	6	53	78.9	82.4	55.3	54.5		
149	3.2	42.0	42.1	271.8	266.2	6	51	89.1	93.8	46.7	46.8	4.7	1261
		44.4	44.5	270.9	265.8	7	1	88.2	93.3	44.3	44.4		
		46.7	46.9	270.0	265.3	7	11	87.3	92.8	42.0	42.0		
1100	5.3	43.8	49.5	263.8	259.6	7	2	95.7	99.3	53.8	54.4	3.3	410
		51.1	51.9	263.2	259.3	7	12	95.0	98.9	51.4	52.0		
		53.4	54.3	262.6	259.0	7	22	94.3	98.6	49.1	49.6		
172	4.0	37.8	37.9	272.3	265.8	7	14	86.5	91.9	42.8	42.7	3.8	381
		40.1	40.3	271.3	265.4	7	24	85.5	91.4	40.4	40.3		
		42.5	42.7	270.4	265.0	7	34	84.4	90.8	38.1	37.9		
135	3.7	55.5	55.5	271.7	268.3	7	29	89.9	92.7	60.2	60.3	4.8	1299
		57.8	57.9	270.8	267.7	7	39	89.0	92.2	57.8	57.9		
		60.2	60.3	270.0	267.1	7	49	88.1	91.6	55.5	55.5		
1144	3.3	37.6	38.0	269.1	262.7	7	50	92.3	97.7	42.5	43.0	3.3	410
		40.0	40.4	268.3	262.4	8	0	91.5	97.4	40.2	40.6		
		42.3	42.8	267.6	262.2	8	10	90.7	97.1	37.8	38.2		
1144	3.3	41.4	41.9	267.9	262.3	8	6	91.3	96.1	46.1	46.4	3.8	426
		43.7	44.2	267.1	262.0	8	16	90.5	95.7	43.7	44.0		
		46.1	46.6	266.4	261.7	8	26	89.7	95.3	41.4	41.6		
192	4.3	53.2	53.0	274.0	270.2	8	44	86.8	89.9	57.8	57.7	4.8	475
		55.6	55.5	273.0	269.6	8	54	85.8	89.3	55.5	55.3		
		57.9	57.9	272.1	269.0	9	4	84.8	88.6	53.1	52.8		
1146	4.3	56.1	56.4	267.3	263.9	9	12	91.8	94.6	61.1	61.3	1.2	498
		58.4	58.8	266.5	263.4	9	22	91.0	94.0	58.7	58.9		
		60.7	61.2	265.7	263.0	9	32	90.2	93.5	56.4	56.5		
220	2.2	55.6	55.6	271.9	268.4	9	34	89.7	91.5	60.5	60.5	5.2	1355
		58.0	58.0	271.0	267.8	9	44	87.8	90.9	58.1	58.1		
		60.3	60.4	270.1	267.2	9	54	86.9	90.3	55.8	55.7		
266	4.3	41.9	41.8	274.2	268.7	9	45	84.0	88.8	46.6	46.3	4.9	1335
		44.3	44.2	273.2	268.1	9	55	82.9	88.0	44.2	43.9		
		46.6	46.6	272.3	267.5	10	5	81.7	87.3	41.9	41.4		
266	4.3	45.2	45.2	272.8	267.9	9	59	87.8	92.0	50.0	50.0	1.2	498
		47.5	47.6	271.9	267.3	10	9	86.8	91.4	47.7	47.6		
		49.9	50.0	271.0	266.8	10	19	85.8	90.8	45.3	45.2		
266	4.3	50.8	51.0	270.6	266.6	10	23	88.9	92.3	55.8	55.9	4.3	523
		53.2	53.4	269.8	266.0	10	33	88.0	91.7	53.5	53.5		
		55.5	55.8	268.9	265.5	10	43	87.0	91.1	51.2	51.1		
1202	5.1	44.8	45.1	269.3	264.3	10	52	90.7	94.9	49.6	49.9	4.6	1371
		47.2	47.5	268.5	263.9	11	2	89.8	94.4	47.3	47.5		
		49.5	49.9	267.7	263.5	11	12	88.9	93.9	44.9	45.0		
311	5.1	41.4	41.8	268.7	263.0	11	6	89.5	94.2	46.3	46.5	4.6	1371
		43.8	44.2	267.9	262.7	11	16	88.6	93.7	44.0	44.1		
		46.1	46.6	267.1	262.4	11	26	87.6	93.2	41.6	41.7		
293	4.1	53.4	53.3	272.9	269.2	11	18	88.7	91.8	58.2	58.3	2.7	564
		55.8	55.8	272.0	268.6	11	28	87.8	91.2	55.9	55.9		
		58.1	58.2	271.1	268.0	11	38	86.9	90.6	53.6	53.4		

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15	LAT-20	LAT-15		
304	5.1	57.2	56.6	278.9	275.7	11	44	82.9	85.6	61.8	61.3	3.6	585
		59.5	59.0	277.8	274.9	11	54	81.8	84.8	59.5	58.9		
		61.9	61.4	276.8	274.1	12	4	80.8	84.0	57.1	56.5		
316	4.0	54.1	53.4	280.1	276.5	11	57	81.5	84.6	58.8	58.1	3.6	585
		56.4	55.8	279.0	275.6	12	7	80.4	83.8	56.4	55.7		
		58.8	58.2	277.9	274.8	12	17	79.3	82.9	54.1	53.3		
316	4.0	56.9	56.3	278.8	275.5	12	9	83.1	85.8	61.6	61.1	3.0	603
		59.2	58.7	277.7	274.7	12	19	82.1	85.1	59.3	58.7		
		61.6	61.1	276.7	273.9	12	29	81.0	84.3	57.0	56.3		
325	5.2	55.2	55.5	268.5	265.1	12	28	90.9	93.8	60.3	60.5	2.7	622
		57.6	57.9	267.7	264.6	12	38	90.1	93.2	57.9	58.1		
		59.9	60.3	266.9	264.1	12	48	89.2	92.6	55.6	55.6		
1261	4.7	37.9	37.8	274.5	268.1	12	40	83.1	88.5	42.8	42.5	4.8	1499
		40.3	40.2	273.5	267.5	12	50	81.9	87.7	40.5	40.1		
		42.6	42.6	272.5	267.0	13	0	80.6	87.0	38.2	37.6		
381	3.8	44.8	44.8	272.6	267.6	13	14	86.8	91.1	49.5	49.4	2.7	622
		47.2	47.2	271.7	267.1	13	24	85.8	90.5	47.1	47.0		
		49.5	49.6	270.8	266.5	13	34	84.8	89.9	44.8	44.5		
399	4.1	48.8	49.4	264.9	260.6	13	51	84.7	98.4	53.7	54.2	3.6	658
		51.1	51.8	264.2	260.3	14	1	94.0	98.0	51.3	51.8		
		53.4	54.2	263.6	260.0	14	11	93.3	97.6	49.0	49.4		
410	3.3	46.2	46.7	266.6	261.9	14	3	93.9	97.9	50.8	51.4	3.6	658
		48.6	49.1	265.9	261.5	14	13	93.2	97.5	48.5	49.0		
		50.9	51.5	265.2	261.2	14	23	92.4	97.2	46.2	46.6		
399	4.1	54.8	55.6	263.2	259.9	14	17	95.6	98.5	59.8	60.5	4.7	696
		57.2	58.0	262.5	259.4	14	27	94.9	98.1	57.5	58.2		
		59.5	60.3	261.9	259.0	14	37	94.2	97.6	55.2	55.7		
410	3.3	52.3	52.9	264.8	261.0	14	29	94.8	99.0	57.0	57.6	4.7	696
		54.6	55.3	264.1	260.6	14	39	94.0	97.5	54.7	55.2		
		57.0	57.7	263.4	260.2	14	49	93.3	97.1	52.4	52.8		
426	3.8	49.0	49.3	267.7	263.4	14	43	93.7	97.4	53.8	54.2	4.7	696
		51.3	51.7	266.9	263.0	14	53	93.0	96.9	51.4	51.8		
		53.6	54.1	266.2	262.5	15	3	92.2	96.5	49.1	49.5		
1290	4.8	49.3	49.1	274.4	270.1	14	56	85.6	89.3	53.9	53.7	4.1	1482
		51.7	51.5	273.4	269.4	15	6	84.6	88.6	51.6	51.3		
		54.0	53.9	272.5	268.8	15	16	83.6	87.9	49.3	49.9		
457	2.8	41.9	42.5	265.9	260.4	15	12	91.5	96.2	47.0	47.3	4.7	696
		44.3	44.9	265.2	260.2	15	22	90.7	95.8	44.6	44.9		
		46.6	47.3	264.6	259.9	15	32	89.9	95.4	42.3	42.5		
1290	4.8	56.6	56.6	271.5	268.2	15	27	87.2	89.9	61.5	61.4	5.0	737
		59.9	59.0	270.6	267.6	15	37	86.3	89.2	59.2	59.0		
		61.3	61.4	269.7	267.0	15	47	85.3	88.6	56.8	56.6		
457	2.8	48.3	48.7	264.2	259.9	15	38	95.3	99.0	52.8	53.5	4.6	727
		50.3	51.1	263.5	259.5	15	48	94.6	98.6	50.5	51.1		
		52.7	53.5	262.9	259.2	15	58	93.9	98.3	48.2	48.7		
1335	4.9	44.6	44.2	277.0	271.9	15	53	83.3	87.6	49.5	49.1	5.4	1500
		46.9	46.6	275.8	271.1	16	3	82.2	86.8	47.1	46.6		
		49.2	49.0	274.8	270.5	16	13	81.0	86.0	44.8	44.2		
465	3.1	50.8	51.4	264.8	260.8	16	3	95.5	98.9	55.6	56.2	5.1	1522
		53.1	53.8	264.1	260.4	16	13	94.8	98.5	53.2	53.8		
		55.5	56.2	263.4	260.1	16	23	94.1	98.1	50.9	51.4		
465	3.1	53.6	54.3	264.0	260.4	16	15	95.5	99.5	58.3	58.9	3.3	762
		55.9	56.7	263.2	260.0	16	25	94.8	98.1	56.0	56.6		
		58.3	59.0	262.6	259.6	16	35	94.1	97.7	53.7	54.2		
1355	5.2	42.2	41.6	279.4	273.9	16	29	80.8	85.5	47.0	46.4	5.0	737
		44.6	44.1	278.2	273.1	16	39	79.6	84.6	44.7	44.0		
		46.9	46.5	277.1	272.3	16	49	78.2	83.7	42.4	41.6		
1335	4.9	56.3	56.3	271.9	269.6	16	43	89.4	92.1	60.8	60.9	4.8	1547
		58.6	58.7	271.0	269.0	16	53	88.5	91.5	58.5	58.5		
		61.0	61.1	270.1	267.4	17	3	87.6	90.9	56.1	56.1		
498	1.2	51.6	51.6	271.6	267.6	16	56	89.3	91.7	56.4	56.4	3.8	761
		54.0	54.1	270.7	267.1	17	6	87.4	91.0	54.1	54.0		
		56.3	56.5	269.8	266.5	17	16	86.5	90.4	51.8	51.6		
1371	4.6	41.2	41.2	272.6	266.9	17	8	88.3	93.1	45.8	45.9	3.8	761
		43.5	43.6	271.6	266.4	17	18	87.3	92.6	43.4	43.4		
		45.9	46.0	270.7	265.9	17	28	86.3	92.1	41.1	41.0		
1371	4.6	41.2	41.2	272.6	266.9	17	8	88.2	93.1	45.7	45.8	4.6	1527
		43.5	43.6	271.6	266.4	17	18	87.2	92.5	43.4	43.3		
		45.9	46.0	270.7	265.9	17	28	86.2	92.0	41.0	40.9		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15	LAT-20	LAT-15		
523	4.3	46.3	46.1	275.0	270.2	17	20	86.1	90.2	50.8	50.7	3.8	781
		48.7	48.5	274.0	269.6	17	30	85.1	89.5	48.5	48.2		
		51.0	50.9	273.0	269.0	17	40	84.0	88.8	46.1	45.8		
1371	4.6	47.3	47.4	270.2	265.6	17	34	89.1	93.0	52.1	52.2	4.5	794
		49.6	49.9	269.4	265.1	17	44	88.2	92.4	49.8	49.8		
		52.0	52.3	268.5	264.6	17	54	87.3	91.9	47.4	47.4		
523	4.3	52.2	52.1	272.5	268.7	17	45	86.6	89.8	57.2	57.1	4.8	1569
		54.5	54.5	271.6	268.1	17	55	85.6	89.2	54.9	54.6		
		56.9	56.9	270.7	267.5	18	5	84.6	88.5	52.5	52.2		
1387	5.3	44.6	45.1	267.3	262.3	17	57	90.3	94.5	49.7	49.9	5.5	1562
		47.0	47.5	266.6	262.0	18	7	89.4	94.0	47.4	47.5		
		49.3	49.9	265.9	261.6	18	17	88.5	93.5	45.0	45.1		
548	2.9	44.8	45.3	267.2	262.2	17	58	90.2	94.4	49.5	49.7	5.5	1562
		47.1	47.7	266.5	261.9	18	8	89.3	93.9	47.1	47.3		
		49.5	50.0	265.8	261.6	18	18	88.4	93.4	44.8	44.9		
1394	5.4	46.6	46.2	277.4	272.7	18	7	81.0	85.0	51.4	50.8	3.1	808
		49.0	48.6	276.3	271.9	18	17	79.8	84.2	49.1	48.4		
		51.3	51.0	275.3	271.2	18	27	78.6	83.3	46.8	46.0		
564	2.7	44.9	44.5	277.0	271.9	18	17	83.4	87.6	49.7	49.3	4.8	1569
		47.3	47.0	275.8	271.2	18	27	82.2	86.9	47.4	46.9		
		49.6	49.4	274.8	270.5	18	37	81.1	86.1	45.1	44.5		
545	4.0	57.1	56.7	276.4	273.2	18	30	84.1	86.8	61.9	61.5	5.3	1595
		59.5	59.1	275.4	272.5	18	40	83.1	86.0	59.6	59.1		
		61.8	61.5	274.5	271.8	18	50	82.0	85.3	57.3	56.7		
577	4.0	44.5	44.8	269.1	264.1	18	40	91.5	95.7	49.3	49.6	4.4	828
		46.8	47.2	268.3	263.7	18	50	90.7	95.3	46.9	47.2		
		49.2	49.6	267.5	263.3	19	0	89.8	94.9	44.6	44.8		
1417	4.7	41.8	42.0	270.8	265.3	18	51	90.6	95.3	46.7	47.0	4.4	828
		44.2	44.4	270.0	264.8	19	1	89.7	94.8	44.4	44.6		
		46.5	46.8	269.1	264.4	19	11	88.8	94.4	42.0	42.1		
577	4.0	49.6	50.0	267.4	263.2	19	2	92.8	96.4	54.3	54.7	4.2	861
		52.0	52.4	266.6	262.8	19	12	92.0	95.9	52.0	52.3		
		54.3	54.8	265.9	262.4	19	22	91.2	95.4	49.6	49.9		
1417	4.7	47.0	47.3	269.0	264.3	19	13	91.9	95.9	51.7	52.1	4.2	861
		49.4	49.7	268.2	263.9	19	23	91.1	95.4	49.4	49.7		
		51.7	52.1	267.4	263.5	19	33	90.3	94.9	47.1	47.3		
1439	4.7	39.5	39.0	278.0	271.7	19	24	80.0	85.3	43.3	42.6	4.3	840
		40.8	40.4	276.8	271.0	19	34	78.7	84.4	40.9	40.2		
		43.1	42.9	275.6	270.3	19	44	77.2	83.5	38.7	37.8		
622	2.7	44.0	43.8	275.5	270.4	19	35	82.7	87.1	49.1	48.6	3.8	864
		46.4	46.2	274.5	269.7	19	45	81.6	86.3	46.8	46.2		
		48.7	48.6	273.5	269.1	19	55	80.3	85.5	44.4	43.8		
622	2.7	46.6	46.4	274.4	269.6	19	46	85.8	89.8	51.5	51.3	4.5	1608
		49.0	48.9	273.4	269.0	19	56	84.8	89.2	49.1	48.9		
		51.3	51.3	272.4	268.4	20	6	83.8	88.5	46.8	46.4		
622	2.7	46.9	46.7	274.3	269.6	19	47	86.7	90.6	51.8	51.7	5.2	1609
		49.2	49.1	273.3	269.0	19	57	85.7	90.0	49.4	49.3		
		51.5	51.5	272.3	268.4	20	7	84.7	89.3	47.1	46.8		
605	3.3	55.8	55.2	278.2	274.8	19	58	82.7	85.5	60.5	60.0	5.1	900
		58.1	57.6	277.2	274.1	20	8	81.6	84.7	58.2	57.6		
		60.4	60.0	276.2	273.3	20	18	80.5	83.9	55.9	55.2		
622	2.7	54.1	54.2	271.3	267.7	20	18	88.5	91.5	58.9	58.9	3.8	9
		56.5	56.6	270.5	267.1	20	28	87.6	90.9	56.6	56.5		
		58.8	59.0	269.6	266.6	20	38	86.7	90.3	54.3	54.1		
658	3.6	41.2	41.6	269.2	263.6	20	29	91.4	96.1	46.1	46.5	4.6	894
		43.6	44.0	268.4	263.2	20	39	90.5	95.7	43.8	44.1		
		45.9	46.4	267.7	262.9	20	49	89.7	95.3	41.4	41.7		
673	3.5	44.8	44.5	276.3	271.3	20	59	84.6	88.9	49.3	49.0	3.8	9
		47.1	46.9	275.2	270.6	21	9	83.5	88.2	47.0	46.6		
		49.5	49.3	274.2	269.9	21	19	82.3	87.4	44.7	44.2		
1486	4.7	39.8	39.2	280.0	274.0	21	20	82.2	87.4	44.4	44.0	3.8	9
		42.2	41.6	278.7	273.2	21	30	81.0	86.6	42.1	41.6		
		44.5	44.0	277.5	272.4	21	40	79.7	85.7	39.8	39.2		
673	3.5	52.3	52.2	273.0	269.2	21	31	87.0	90.2	57.2	57.1	3.8	47
		54.6	54.6	272.1	268.6	21	41	86.1	89.6	54.8	54.6		
		57.0	57.0	271.2	268.0	21	51	85.1	88.9	52.5	52.2		
1486	4.7	47.5	47.2	276.1	271.5	21	53	84.9	88.8	52.0	51.7	3.8	47
		49.9	49.6	275.0	270.8	22	3	83.8	88.1	49.7	49.3		
		52.2	52.0	274.0	270.1	22	13	82.7	87.3	47.4	46.9		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ				Z. D.					
		LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15	LAT-20	LAT-15		
702	5.1	47.5	47.1	277.2	272.6	21	53	84.9	88.8	52.0	51.7	3.8	47
		49.8	49.5	276.1	271.9	22	3	83.8	88.1	49.7	49.3		
		52.2	51.9	275.1	271.2	22	13	82.7	87.3	47.4	46.9		
696	4.7	54.9	55.4	265.9	262.4	22	18	92.9	95.8	59.5	59.9	4.9	1066
		57.2	57.8	265.2	262.0	22	28	92.1	95.3	57.1	57.5		
		59.6	60.2	264.4	261.6	22	38	91.3	94.8	54.8	55.1		
1512	5.5	40.8	41.2	267.9	262.2	22	31	93.2	98.0	45.7	46.2	3.7	59
		43.1	43.6	267.2	261.9	22	41	92.5	97.7	43.4	43.8		
		45.5	46.0	266.4	261.6	22	51	91.7	97.4	41.0	41.4		
1514	5.1	40.6	41.0	268.2	262.5	22	32	93.1	98.0	45.5	46.0	3.7	59
		43.0	43.4	267.5	262.2	22	42	92.4	97.7	43.1	43.6		
		45.3	45.8	266.7	261.9	22	52	91.6	97.4	40.8	41.2		
727	4.6	48.8	49.4	265.9	261.6	22	46	94.7	99.3	53.6	54.2	4.8	1071
		51.2	51.8	265.2	261.3	22	56	93.9	97.9	51.3	51.8		
		53.5	54.1	264.5	260.9	23	6	93.2	97.5	48.9	49.4		
1512	5.5	46.6	47.2	266.1	261.4	22	56	93.9	97.9	51.3	51.8	4.8	1071
		49.0	49.6	265.4	261.1	23	6	93.2	97.5	48.9	49.4		
		51.3	52.0	264.7	260.9	23	16	92.5	97.1	46.6	47.0		
1514	5.1	46.5	47.0	266.4	261.7	22	57	93.9	97.9	51.0	51.5	4.8	1071
		49.8	49.4	265.7	261.4	23	7	93.1	97.5	48.7	49.1		
		51.2	51.8	265.0	261.0	23	17	92.4	97.1	46.3	46.7		
762	3.3	41.5	41.7	270.0	264.4	23	13	88.3	93.0	46.6	46.6	4.9	1066
		43.9	44.2	269.2	264.0	23	23	87.3	92.5	44.2	44.2		
		46.2	46.6	268.4	263.6	23	33	86.3	91.9	41.9	41.8		
727	5.0	56.7	56.4	274.7	271.4	23	24	84.9	97.6	61.4	61.1	4.8	1097
		59.0	59.8	273.8	270.8	23	34	83.9	86.9	59.1	58.7		
		61.4	61.2	272.8	270.1	23	44	82.8	86.1	56.7	56.3		
781	3.8	43.3	42.9	277.4	272.0	23	41	84.1	88.6	48.2	47.8	4.1	104
		45.6	45.3	276.2	271.3	23	51	83.0	87.9	45.8	45.4		
		48.0	47.7	275.2	270.6	24	1	81.8	87.1	43.5	43.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT-15 LAT-10	LAT-15 LAT-10	LAT-15 LAT-10	HRS MIN	LAT-15 LAT-10	LAT-15 LAT-10	LAT-15 LAT-10	Z. D.	LAT-15 LAT-10		
781	3.8	47.2	47.4	270.8	266.2	23 59	90.5	94.4	52.2	52.4	3.8	127	
		49.6	49.8	270.1	265.9	0 9	89.9	94.1	49.8	50.0			
		52.1	52.3	269.5	265.6	0 19	89.2	93.8	47.4	47.5			
794	4.5	44.5	44.8	268.8	263.8	0 11	89.7	94.0	49.3	49.5	3.8	127	
		46.9	47.3	268.2	263.6	0 21	89.1	93.7	46.9	47.0			
		49.3	49.7	267.7	263.4	0 31	88.4	93.5	44.5	44.6			
1547	4.8	51.7	51.8	270.2	266.3	0 22	88.4	91.7	56.6	56.6	4.1	154	
		54.1	54.3	269.6	266.0	0 32	87.7	91.3	54.2	54.2			
		56.5	56.7	269.0	265.7	0 42	87.0	90.9	51.8	51.7			
1543	4.6	56.2	56.0	273.9	270.6	0 32	85.5	88.3	61.0	60.7	4.1	169	
		58.6	58.5	273.2	270.1	0 42	84.7	87.8	58.6	58.2			
		61.0	60.9	272.5	269.7	0 52	83.9	87.3	56.2	55.8			
1569	4.8	46.3	46.3	273.3	268.5	0 44	86.8	90.8	51.3	51.2	4.1	154	
		48.8	48.7	272.6	268.2	0 54	86.0	90.4	48.9	48.7			
		51.2	51.2	271.8	267.8	1 4	85.2	90.0	46.5	46.3			
809	3.1	50.8	50.5	275.0	270.9	0 54	83.8	87.2	55.7	55.3	4.1	169	
		53.2	53.0	274.2	270.4	1 4	82.9	86.7	53.3	52.8			
		55.6	55.5	273.4	270.0	1 14	82.0	86.1	50.9	50.4			
808	3.1	54.4	54.2	273.8	270.2	1 9	87.0	90.0	59.2	59.1	2.9	188	
		56.8	56.7	273.1	269.8	1 19	86.3	89.6	56.8	56.6			
		59.2	59.2	272.3	269.3	1 29	85.5	89.1	54.4	54.2			
1595	5.3	41.5	40.9	280.6	275.0	1 20	80.7	85.5	46.3	45.7	5.2	1129	
		43.9	43.3	279.5	274.3	1 30	79.7	84.9	43.9	43.3			
		46.3	45.8	278.5	273.7	1 40	78.5	84.2	41.6	40.8			
840	4.3	49.5	48.5	272.7	268.3	1 32	85.3	89.0	53.7	53.4	2.9	188	
		50.9	50.9	272.0	267.9	1 42	84.5	88.5	51.3	51.0			
		53.3	53.4	271.3	267.6	1 52	83.6	88.0	48.9	48.5			
1591	4.9	47.0	47.3	269.1	264.5	1 42	88.8	92.7	52.1	52.2	0.3	194	
		49.4	49.7	268.5	264.3	1 52	88.1	92.4	49.7	49.7			
		51.8	52.2	268.0	264.1	2 2	87.4	92.0	47.3	47.3			
864	3.8	45.2	45.1	274.1	269.1	1 54	86.5	90.6	50.3	50.2	3.7	195	
		47.6	47.6	273.3	268.7	2 4	85.7	90.2	47.9	47.7			
		50.1	50.0	272.5	268.3	2 14	84.8	89.8	45.5	45.2			
864	3.8	47.6	47.6	273.3	268.7	2 4	85.9	89.8	52.4	52.2	2.9	209	
		50.1	50.0	272.5	268.3	2 14	85.1	89.3	50.0	49.8			
		52.5	52.5	271.8	267.9	2 24	84.3	88.8	47.6	47.3			
1607	4.4	45.2	44.9	276.3	271.3	2 14	85.1	89.3	50.0	49.8	2.9	209	
		47.6	47.3	275.4	270.8	2 24	84.3	88.8	47.6	47.3			
		50.0	49.8	274.6	270.4	2 34	83.4	88.4	45.2	44.8			
864	3.8	53.9	54.0	271.4	267.7	2 30	86.5	89.5	59.1	58.9	5.0	246	
		56.3	56.4	270.7	267.4	2 40	85.8	89.1	56.7	56.5			
		58.7	58.9	270.0	267.0	2 50	85.0	88.6	54.3	54.0			
861	4.2	56.2	56.9	263.4	260.1	2 41	95.7	98.4	61.2	61.8	4.3	266	
		58.6	59.3	262.9	259.9	2 51	95.1	98.1	58.8	59.4			
		60.9	61.7	262.4	259.7	3 1	94.6	97.9	56.4	56.9			
1607	4.4	56.8	56.7	272.5	269.2	3 2	86.7	89.4	61.7	61.5	5.0	1186	
		59.2	59.1	271.8	268.8	3 12	85.9	88.9	59.3	59.1			
		61.6	61.6	271.1	268.4	3 22	85.2	88.4	56.9	56.6			
30	5.2	38.2	38.3	271.6	265.3	3 25	85.4	90.8	43.1	42.9	5.1	1170	
		40.6	40.8	270.9	265.1	3 35	84.5	90.3	40.7	40.5			
		43.0	43.2	270.2	264.9	3 45	83.6	89.9	38.3	38.0			
1630	4.7	54.2	54.1	273.3	269.7	3 39	85.8	88.8	59.3	59.1	5.2	289	
		56.6	56.5	272.5	269.2	3 49	85.0	88.3	56.9	56.6			
		59.0	59.0	271.8	268.8	3 59	84.2	87.8	54.5	54.2			
1002	4.7	53.9	53.8	273.7	270.1	3 41	85.6	88.7	58.9	58.6	5.2	289	
		56.3	56.2	273.0	269.7	3 51	84.9	88.2	56.5	56.1			
		58.8	58.7	272.3	269.2	4 1	84.0	87.7	54.0	53.7			
1630	4.7	57.1	57.0	272.4	269.2	3 51	86.1	88.7	62.0	61.7	5.1	304	
		59.5	59.5	271.7	268.7	4 1	85.3	88.3	59.6	59.3			
		61.9	61.9	271.0	268.4	4 11	84.5	87.8	57.2	56.8			
1002	4.7	56.6	56.5	272.9	269.6	3 52	86.0	88.7	61.7	61.5	5.1	304	
		59.0	58.9	272.2	269.2	4 2	85.2	88.2	59.3	59.0			
		61.4	61.4	271.5	268.8	4 12	84.5	87.7	56.9	56.6			
40	3.6	45.6	45.8	270.2	265.3	4 14	90.1	94.2	50.6	50.8	4.1	293	
		48.1	48.3	269.6	265.1	4 24	89.4	93.9	48.2	48.3			
		50.5	50.7	268.9	264.8	4 34	88.7	93.6	45.8	45.9			
1049	5.3	45.3	44.6	279.7	274.8	4 40	82.1	86.3	50.2	49.7	5.1	304	
		47.7	47.1	278.7	274.1	4 50	81.1	85.7	47.8	47.2			
		50.0	49.6	277.8	273.6	5 0	80.1	85.0	45.4	44.8			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT-10	LAT-15	LAT-10	HRS	MIN	LAT-15	LAT-10	Z. D.	LAT-10		
1049	5.3	51.2	50.8	277.3	273.3	5	5	83.9	87.3	56.2	55.8	5.2	1230
		53.6	53.2	276.4	272.7	5	15	83.1	86.7	53.8	53.3		
		56.9	55.7	275.6	272.2	5	25	82.2	86.2	51.4	50.9		
97	4.4	40.6	41.2	265.9	260.2	5	31	92.8	97.6	45.7	46.1	5.2	325
		43.9	43.6	265.5	260.2	5	41	92.3	97.5	43.3	43.7		
		45.4	46.0	265.1	260.2	5	51	91.7	97.5	40.8	41.2		
104	4.1	45.7	45.7	272.1	267.2	6	1	88.8	92.9	50.6	50.7	2.2	354
		48.1	48.2	271.3	266.9	6	11	88.1	92.6	48.2	48.2		
		50.5	50.6	270.7	266.5	6	21	87.4	92.3	45.8	45.8		
97	4.4	50.9	51.6	264.0	260.1	6	14	95.7	99.0	55.7	56.4	4.7	1261
		53.3	54.0	263.6	260.0	6	24	95.2	98.8	53.3	53.9		
		55.7	56.5	263.2	259.8	6	34	94.7	98.7	50.9	51.5		
135	3.7	40.0	40.0	272.5	266.6	6	25	87.1	92.1	44.8	44.8	2.2	354
		42.4	42.5	271.8	266.3	6	35	86.3	91.8	42.4	42.3		
		44.8	45.0	271.1	266.1	6	45	85.5	91.4	40.0	39.9		
1091	4.9	49.5	49.6	271.1	266.8	6	36	89.1	92.7	54.4	54.5	5.4	1263
		51.9	52.0	270.4	266.5	6	46	88.4	92.3	52.0	52.0		
		54.3	54.5	269.7	266.2	6	56	87.7	92.0	49.6	49.5		
149	3.2	42.8	43.4	266.1	260.8	6	54	93.0	97.5	47.5	48.0	3.8	381
		45.2	45.8	265.6	260.8	7	4	92.5	97.4	45.1	45.5		
		47.6	48.2	265.2	260.7	7	14	91.9	97.3	42.7	43.1		
1097	4.8	55.7	55.5	274.0	270.6	7	13	85.6	88.4	60.8	60.5	4.6	1292
		58.1	58.0	273.3	270.2	7	23	84.8	87.9	58.4	58.0		
		60.5	60.4	272.6	269.7	7	33	84.0	87.4	56.0	55.6		
135	3.7	55.5	55.8	268.3	264.9	7	29	92.7	95.6	60.3	60.7	4.8	1299
		57.9	58.2	267.7	264.6	7	39	92.2	95.3	57.9	58.2		
		60.3	60.7	267.1	264.3	7	49	91.6	95.0	55.5	55.8		
1120	5.2	49.6	49.1	278.0	273.7	7	39	83.5	87.1	54.5	54.1	4.6	1292
		52.0	51.5	277.0	273.1	7	49	82.7	86.6	52.1	51.7		
		54.4	54.0	276.2	272.6	7	59	81.8	86.0	49.7	49.2		
169	4.1	51.0	50.5	278.0	273.9	7	57	80.4	83.8	55.9	55.2	4.5	437
		53.4	52.9	277.1	273.3	8	7	79.5	83.2	53.5	52.8		
		55.8	55.4	276.2	272.8	8	17	78.5	82.5	51.1	50.3		
169	4.1	56.0	55.6	276.1	272.7	8	18	82.2	85.0	61.2	60.6	4.0	460
		58.4	58.1	275.3	272.2	8	28	81.3	84.4	58.8	58.2		
		60.8	60.5	274.6	271.8	8	38	80.4	83.8	56.4	55.7		
190	4.3	53.0	53.2	270.2	266.5	8	44	89.9	93.1	57.7	57.8	4.8	475
		55.5	55.6	269.6	266.1	8	54	89.3	92.7	55.3	55.3		
		57.9	58.1	269.0	265.8	9	4	88.6	92.4	52.8	52.9		
194	4.3	56.2	56.3	270.1	266.7	9	2	88.0	90.7	61.3	61.3	4.5	490
		58.6	58.8	269.4	265.4	9	12	87.3	90.3	58.9	58.8		
		61.0	61.3	268.8	265.0	9	22	86.6	89.9	56.5	56.3		
1146	4.3	56.4	57.1	263.9	260.7	9	12	94.6	97.3	61.3	61.9	1.2	499
		58.8	59.5	263.4	260.5	9	22	94.0	97.0	58.9	59.4		
		61.2	62.0	263.0	260.3	9	32	93.5	96.8	56.5	57.0		
220	2.2	55.6	55.9	268.4	265.0	9	34	91.5	94.3	60.5	60.8	5.2	1355
		58.0	58.3	267.8	264.7	9	44	90.9	94.0	58.1	58.3		
		60.4	60.8	267.2	264.4	9	54	90.3	93.7	55.7	55.8		
266	4.3	41.6	41.9	268.7	263.1	9	44	88.8	93.6	46.5	46.6	4.9	1335
		44.0	44.4	268.1	263.0	9	54	88.1	93.3	44.1	44.2		
		46.4	46.8	267.6	262.9	10	4	87.4	93.0	41.7	41.7		
266	4.3	45.2	45.6	267.9	262.9	9	59	92.0	96.1	50.0	50.4	1.2	458
		47.6	48.0	267.3	262.8	10	9	91.4	95.9	47.6	47.9		
		50.0	50.5	266.8	262.6	10	19	90.8	95.7	45.2	45.5		
266	4.3	51.1	51.4	266.6	262.5	10	23	92.3	95.6	55.9	56.2	4.3	523
		53.4	53.9	266.0	262.4	10	33	91.7	95.4	53.5	53.8		
		55.8	56.3	265.5	262.2	10	43	91.1	95.1	51.1	51.3		
1196	5.0	52.7	52.3	276.2	272.4	10	39	82.9	86.1	57.7	57.2	5.0	533
		55.1	54.8	275.4	271.9	10	49	82.0	85.5	55.3	54.7		
		57.5	57.2	274.6	271.4	10	59	81.1	84.9	52.9	52.3		
289	5.2	49.6	49.1	277.6	273.3	10	53	81.7	85.3	54.3	53.8	5.0	533
		52.0	51.6	276.7	272.7	11	3	80.7	84.7	51.9	51.3		
		54.4	54.0	275.8	272.2	11	13	79.8	84.0	49.6	48.8		
304	5.1	47.0	46.4	279.2	274.6	11	4	80.7	84.6	51.7	51.1	5.0	533
		49.4	48.8	278.3	273.9	11	14	79.7	84.0	49.3	48.6		
		51.8	51.3	277.3	273.4	11	24	78.6	83.3	46.9	46.2		
293	4.1	53.3	53.6	269.2	265.5	11	18	91.8	94.9	58.3	56.6	2.7	564
		55.8	56.0	268.6	265.2	11	28	91.2	94.6	55.9	56.1		
		58.2	58.5	268.0	264.9	11	38	90.6	94.3	53.4	53.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-15	LAT-10	LAT-15	LAT-10	HRS	MIN	LAT-15	LAT-10	LAT-15	LAT-10		
304	5.1	56.6	56.2	275.7	272.3	11	44	85.6	88.3	61.3	61.0	3.6	585
		59.0	58.7	274.9	271.8	11	54	84.8	87.8	58.9	58.5		
		61.4	61.1	274.1	271.4	12	4	84.0	87.3	56.5	56.1		
316	4.0	53.4	53.0	276.5	272.7	11	57	84.6	87.7	58.1	57.8	3.6	585
		55.8	55.5	275.6	272.2	12	7	83.8	87.2	55.7	55.4		
		58.2	57.9	274.8	271.7	12	17	82.9	86.6	53.3	52.9		
316	4.0	56.3	56.0	275.5	272.1	12	9	85.8	88.6	61.1	60.9	3.0	603
		58.7	58.4	274.7	271.6	12	19	85.1	88.1	58.7	58.4		
		61.1	60.9	273.9	271.2	12	29	84.3	87.6	56.3	56.0		
325	5.2	55.5	56.1	265.1	261.7	12	28	93.8	96.6	60.5	60.9	2.7	622
		57.9	58.5	264.6	261.5	12	38	93.2	96.3	58.1	58.5		
		60.3	61.0	264.1	261.3	12	48	92.6	96.0	55.6	56.0		
1261	4.7	37.6	38.0	268.1	261.7	12	39	88.6	94.0	42.7	42.8	4.8	1409
		40.0	40.5	267.6	261.7	12	49	87.8	93.7	40.3	40.4		
		42.4	42.9	267.1	261.7	12	59	87.0	93.5	37.9	37.9		
391	3.8	44.6	45.0	267.6	262.6	13	13	91.2	95.4	49.6	49.9	2.7	622
		47.0	47.4	267.1	262.5	13	23	90.6	95.2	47.2	47.4		
		49.4	49.9	266.6	262.3	13	33	89.9	94.9	44.8	45.0		
1263	5.4	50.7	50.7	271.9	267.8	13	42	85.9	89.3	55.8	55.6	4.6	647
		53.1	53.2	271.2	267.5	13	52	85.1	88.8	53.4	53.1		
		55.5	55.6	270.6	267.1	14	2	84.3	88.4	51.0	50.6		
381	3.8	54.4	55.0	265.5	262.0	13	54	92.7	95.6	59.6	60.0	3.5	673
		56.9	57.4	265.0	261.8	14	4	92.1	95.3	57.2	57.5		
		59.3	59.9	264.5	261.6	14	14	91.5	95.0	54.8	55.1		
1272	4.6	51.1	50.6	277.7	273.6	14	38	83.3	86.7	56.0	55.6	3.4	686
		53.5	53.1	276.8	273.1	14	48	82.4	86.1	53.6	53.1		
		55.9	55.5	276.0	272.6	14	58	81.5	85.5	51.3	50.7		
1299	4.8	48.9	49.1	270.1	265.8	14	55	89.4	93.0	54.0	54.1	4.1	1482
		51.3	51.5	269.5	265.5	15	5	88.7	92.7	51.5	51.6		
		53.7	54.0	268.9	265.2	15	15	88.0	92.3	49.1	49.1		
1299	4.9	53.5	53.7	268.9	265.3	15	14	90.2	93.3	58.5	58.6	5.4	1500
		55.9	56.2	268.3	265.0	15	24	89.6	92.9	56.1	56.2		
		58.3	58.6	267.7	264.7	15	34	88.9	92.6	53.6	53.7		
1299	4.8	56.6	56.9	268.2	264.9	15	27	89.9	92.7	61.4	61.5	5.0	737
		59.0	59.4	267.6	264.6	15	37	89.3	92.3	59.0	59.0		
		61.4	61.8	267.0	264.3	15	47	88.6	91.9	56.6	56.6		
1335	4.9	40.3	40.3	273.1	267.2	15	37	88.0	92.9	45.3	45.4	4.7	1486
		42.7	42.8	272.3	266.9	15	47	87.2	92.6	42.9	42.9		
		45.1	45.2	271.6	266.6	15	57	86.4	92.3	40.5	40.5		
1335	4.9	40.6	40.6	273.0	267.1	15	38	86.9	91.8	45.6	45.5	5.1	702
		43.0	43.0	272.2	266.9	15	48	86.1	91.5	43.2	43.1		
		45.4	45.5	271.5	266.6	15	58	85.3	91.1	40.8	40.6		
499	4.5	40.2	39.6	279.5	273.6	15	48	81.6	86.6	44.9	44.4	4.5	1489
		42.6	42.1	278.4	273.0	15	58	80.5	86.0	42.6	42.0		
		45.0	44.6	277.4	272.4	16	8	79.4	85.4	40.2	39.5		
1335	4.9	47.1	47.2	271.0	266.4	16	5	87.3	91.2	52.2	52.2	5.0	737
		49.5	49.7	270.3	266.1	16	15	86.6	90.8	49.8	49.7		
		51.9	52.1	269.7	265.8	16	25	85.8	90.4	47.4	47.2		
1355	5.2	38.5	38.4	275.0	268.7	16	16	85.8	91.1	43.5	43.4	5.4	1500
		47.9	40.8	274.2	268.4	16	26	84.9	90.7	41.1	40.9		
		43.3	43.3	273.3	268.0	16	36	84.0	90.3	38.7	38.5		
1355	5.2	41.6	41.6	273.9	268.3	16	29	85.5	90.2	46.4	46.2	5.0	737
		44.1	44.0	273.1	267.9	16	39	84.6	89.8	44.0	43.8		
		46.5	46.5	272.3	267.6	16	49	83.7	89.4	41.6	41.3		
1335	4.9	56.3	56.5	268.6	265.2	16	43	92.1	94.9	60.9	61.2	4.8	1547
		59.7	59.0	268.0	264.9	16	53	91.5	94.6	58.5	58.7		
		61.1	61.4	267.4	264.6	17	3	90.9	94.3	56.1	56.3		
498	1.2	51.6	52.0	267.6	263.7	16	56	91.7	94.9	56.4	56.7	3.8	761
		54.1	54.5	267.1	263.5	17	6	91.0	94.7	54.0	54.3		
		56.5	56.9	266.5	263.2	17	16	90.4	94.4	51.6	51.8		
1371	4.6	40.9	41.5	266.9	261.2	17	7	93.1	97.9	46.0	46.5	4.6	1527
		43.4	43.9	266.4	261.2	17	17	92.6	97.8	43.6	44.0		
		45.8	46.3	265.9	261.1	17	27	92.1	97.7	41.2	41.6		
1371	4.6	41.2	41.7	266.9	261.2	17	8	93.1	97.9	45.9	46.3	3.8	761
		43.6	44.1	266.4	261.2	17	18	92.6	97.8	43.4	43.9		
		46.0	46.6	265.9	261.1	17	28	92.1	97.8	41.0	41.5		
523	4.3	45.8	46.0	270.3	265.5	17	19	90.2	94.3	50.9	51.1	3.8	781
		49.2	48.5	269.6	265.2	17	29	89.6	94.0	48.5	48.6		
		50.7	50.9	269.0	264.9	17	39	88.9	93.7	46.1	46.2		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.				HRS	MIN			Z.D.			
		LAT-15	LAT-10	LAT-15	LAT-10			LAT-15	LAT-10	LAT-15	LAT-10		
1489	4.5	49.7	49.3	276.6	272.3	22	4	83.9	87.5	54.7	54.3	5.3	1045
		52.1	51.8	275.7	271.8	22	14	83.1	87.0	52.3	51.9		
		54.5	54.2	274.9	271.3	22	24	82.2	86.4	49.9	49.4		
717	3.6	47.5	47.0	277.2	272.6	22	14	83.1	87.0	52.3	51.9	5.3	1049
		49.9	49.5	276.3	272.1	22	24	82.2	86.4	49.9	49.4		
		52.3	52.0	275.5	271.6	22	34	81.2	85.8	47.5	47.0		
717	3.6	56.4	56.1	274.1	270.8	22	51	86.0	88.8	61.2	61.0	5.3	1080
		58.8	58.6	273.4	270.3	23	1	85.3	88.3	58.8	58.5		
		61.2	61.1	272.6	269.9	23	11	84.5	87.8	56.4	56.0		
1569	5.2	55.9	55.4	276.9	273.5	23	11	83.0	85.7	60.9	60.4	5.1	116
		58.2	57.9	276.1	273.0	23	21	82.1	85.2	58.5	58.0		
		60.7	60.3	275.3	272.5	23	31	81.3	84.6	56.1	55.5		
737	5.0	56.2	56.2	271.5	268.1	23	23	87.7	90.4	61.3	61.2	4.8	1097
		58.6	58.6	270.8	267.8	23	33	86.9	90.0	58.9	58.8		
		61.7	61.1	270.2	267.4	23	43	86.2	89.5	56.5	56.3		
781	3.8	42.9	42.9	272.0	266.7	23	41	88.6	93.1	47.8	47.9	4.1	104
		45.3	45.4	271.3	266.4	23	51	87.9	92.8	45.4	45.5		
		47.7	47.9	270.6	266.1	24	1	87.1	92.5	43.0	43.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT-10	LAT -5	HRS	MIN	LAT-10	LAT -5	Z.D.	Z.D.		
781	3.8	45.4	45.9	266.4	261.5	23	51	93.3	97.4	50.2	50.7	4.9	1091
		47.9	48.4	266.1	261.6	0	1	93.0	97.5	47.8	48.2		
		50.3	50.9	265.8	261.7	0	11	92.7	97.6	45.3	45.8		
808	3.1	38.0	38.0	273.6	267.2	0	3	84.9	90.2	43.3	43.0	5.3	1080
		40.5	40.4	273.0	267.1	0	13	84.2	90.0	40.8	40.5		
		42.9	42.9	272.4	267.1	0	23	83.4	89.8	38.4	38.1		
781	3.8	52.3	52.8	265.6	261.8	0	19	91.8	95.0	57.4	57.7	4.1	154
		54.7	55.3	265.3	261.8	0	29	91.4	94.9	54.9	55.2		
		57.2	57.8	265.6	261.8	0	39	91.0	94.9	52.4	52.7		
1543	4.6	55.7	55.8	270.6	267.2	0	31	88.3	91.1	60.9	60.9	4.1	169
		58.2	58.3	270.2	267.1	0	41	87.8	90.9	58.5	58.4		
		60.7	60.8	269.7	266.9	0	51	87.3	90.7	56.0	55.9		
1569	4.8	46.3	46.6	268.5	263.8	0	44	90.8	94.8	51.2	51.5	4.1	154
		48.7	49.1	268.2	263.8	0	54	90.4	94.8	48.7	49.0		
		51.2	51.6	267.8	263.8	1	4	90.0	94.8	46.3	46.5		
808	3.1	51.5	51.6	270.7	266.7	0	58	87.3	90.6	56.6	56.5	4.2	176
		54.0	54.1	270.3	266.6	1	8	86.8	90.4	54.1	54.0		
		56.4	56.6	269.8	266.5	1	18	86.3	90.2	51.7	51.5		
808	3.1	54.2	54.4	270.2	266.6	1	9	90.0	93.0	59.1	59.2	2.9	188
		56.7	56.9	269.8	266.5	1	19	89.6	92.8	56.6	56.7		
		59.2	59.3	269.3	266.4	1	29	89.1	92.7	54.2	54.2		
827	3.2	49.5	49.0	278.1	273.8	1	20	79.7	83.3	54.5	53.8	3.9	180
		51.9	51.4	277.4	273.5	1	30	79.0	82.9	52.1	51.3		
		54.4	53.9	276.7	273.1	1	40	78.1	82.4	49.7	48.8		
1595	5.3	43.6	43.4	274.3	269.0	1	31	85.5	90.0	48.5	48.3	4.2	176
		46.0	45.9	273.6	268.8	1	41	84.9	89.7	46.0	45.8		
		49.5	48.4	273.1	268.6	1	51	84.2	89.5	43.6	43.3		
842	4.0	50.5	50.1	276.4	272.2	1	41	83.5	87.0	55.5	55.0	4.7	1147
		52.9	52.6	275.7	272.0	1	51	82.9	86.7	53.0	52.6		
		55.4	55.1	275.1	271.7	2	1	82.2	96.3	50.6	50.1		
827	3.2	57.3	56.9	276.0	272.8	1	52	84.0	86.7	62.0	61.6	5.3	1161
		59.7	59.4	275.4	272.5	2	2	83.4	86.4	59.6	59.1		
		62.2	61.9	274.9	272.2	2	12	82.8	86.0	57.1	56.7		
864	3.8	47.3	47.6	268.7	264.1	2	3	89.8	93.6	52.5	52.6	2.9	209
		49.8	50.1	268.4	264.2	2	13	89.4	93.5	50.0	50.1		
		52.2	52.6	268.0	264.1	2	23	88.9	93.5	47.5	47.6		
1607	4.4	44.9	45.0	271.3	266.3	2	14	89.3	93.5	49.8	49.9	2.9	209
		47.3	47.5	270.8	266.2	2	24	88.8	93.5	47.3	47.4		
		49.8	49.9	270.4	266.2	2	34	88.4	93.4	44.8	44.9		
864	3.8	54.0	54.3	267.7	264.1	2	30	89.5	92.5	58.9	59.0	5.0	246
		56.4	56.8	267.4	264.1	2	40	89.1	92.4	56.5	56.5		
		58.9	59.3	267.0	264.0	2	50	88.6	92.2	54.0	54.0		
1607	4.4	51.3	51.4	270.1	266.1	2	40	89.1	92.4	56.5	56.5	5.0	246
		53.7	53.9	269.7	266.0	2	50	88.6	92.2	54.0	54.0		
		56.2	56.4	269.3	265.9	3	0	88.1	92.1	51.5	51.5		
884	4.9	53.7	53.1	278.9	275.2	2	57	80.9	84.0	58.5	57.9	4.7	258
		56.1	55.6	278.2	274.8	3	7	80.2	83.6	56.1	55.4		
		58.6	58.0	277.6	274.5	3	17	79.4	83.1	53.7	52.9		
9	3.8	42.1	42.5	267.7	262.2	3	9	91.4	96.0	46.9	47.2	5.1	1170
		44.5	45.0	267.4	262.4	3	19	91.0	96.1	44.4	44.7		
		47.0	47.4	267.1	262.5	3	29	90.6	96.1	42.0	42.2		
30	5.2	39.1	38.8	265.3	259.0	3	24	90.8	96.1	43.2	43.5	5.1	1170
		40.5	41.2	265.1	259.4	3	34	90.4	96.2	40.7	41.0		
		43.0	43.6	264.9	259.7	3	44	90.0	96.3	38.3	38.5		
1630	4.7	54.1	54.2	269.7	266.0	3	39	88.8	91.8	59.1	59.1	5.2	289
		56.5	56.7	269.2	265.9	3	49	88.3	91.6	56.6	56.6		
		59.0	59.2	268.8	265.8	3	59	87.8	91.4	54.2	54.1		
1002	4.7	53.8	53.9	270.1	266.4	3	41	88.7	91.7	58.6	58.6	5.2	289
		56.2	56.4	269.7	266.3	3	51	88.2	91.5	56.1	56.1		
		58.7	58.9	269.2	266.2	4	1	87.7	91.4	53.7	53.6		
1022	4.9	45.6	45.1	278.1	273.2	3	52	82.2	86.4	50.3	49.8	4.1	1187
		48.1	47.6	277.4	272.9	4	2	81.5	86.0	47.9	47.4		
		50.5	50.1	276.7	272.6	4	12	80.7	85.6	45.5	44.9		
40	3.6	45.8	46.5	265.3	260.5	4	14	94.2	98.2	50.8	51.3	4.1	293
		48.3	48.9	265.1	260.7	4	24	93.9	98.3	48.3	48.8		
		50.7	51.4	264.8	260.8	4	34	93.6	98.4	45.9	46.4		
1049	5.3	44.6	44.4	274.8	269.7	4	40	86.3	90.5	49.7	49.6	5.1	304
		47.1	46.9	274.1	269.5	4	50	85.7	90.3	47.2	47.1		
		49.6	49.4	273.6	269.3	5	0	85.0	90.1	44.8	44.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT -10	LAT -5	HRS	MIN	LAT -10	LAT -5	LAT -10	LAT -5		
1049	5.3	50.8	50.7	273.3	269.2	5	5	87.3	90.7	55.8	55.7	5.2	1230
		53.2	53.2	272.7	269.0	5	15	86.7	90.5	53.3	53.2		
		55.7	55.7	272.2	268.8	5	25	86.2	90.3	50.9	50.7		
1049	5.3	57.2	57.1	271.9	268.7	5	31	85.9	88.5	62.2	62.0	4.1	1250
		59.6	59.6	271.5	268.5	5	41	85.3	88.3	59.8	59.5		
		62.1	62.1	271.0	268.3	5	51	84.8	88.0	57.3	57.0		
1087	5.3	41.7	41.5	275.6	269.9	5	42	85.2	89.9	46.7	46.5	5.2	1230
		44.2	44.0	274.9	269.7	5	52	84.5	89.7	44.2	44.0		
		46.6	46.5	274.3	269.5	6	2	83.8	89.4	41.8	41.5		
104	4.1	45.7	46.2	267.2	262.3	6	1	92.9	97.0	50.7	51.1	2.2	354
		48.2	48.7	266.9	262.4	6	11	92.6	97.0	48.2	48.7		
		50.6	51.1	266.5	262.5	6	21	92.3	97.1	45.8	46.2		
1091	4.9	43.4	43.9	267.6	262.4	6	11	92.6	97.0	48.2	48.7	2.2	354
		45.9	46.3	267.3	262.5	6	21	92.3	97.1	45.8	46.2		
		48.3	48.8	266.9	262.5	6	31	91.9	97.2	43.3	43.7		
135	3.7	39.8	40.4	266.6	260.7	6	24	92.2	97.1	45.0	45.4	2.2	354
		42.3	42.8	266.3	260.9	6	34	91.8	97.2	42.6	43.0		
		44.7	45.3	266.1	261.1	6	44	91.5	97.3	40.1	40.5		
1111	5.3	40.5	39.9	279.4	273.5	6	40	81.5	86.4	45.3	44.8	4.1	1250
		42.9	42.4	278.5	273.1	6	50	80.7	86.1	42.9	42.3		
		45.4	44.9	277.7	272.7	7	0	79.8	85.6	40.5	39.8		
1097	4.8	49.8	49.9	271.7	267.5	6	50	86.1	89.7	54.7	54.5	5.2	1270
		52.3	52.4	271.2	267.4	7	0	85.6	89.4	52.3	52.0		
		54.8	54.9	270.7	267.2	7	10	85.0	89.2	49.8	49.6		
1097	4.8	55.5	55.6	270.6	267.2	7	13	88.4	91.2	60.5	60.5	4.6	1292
		58.0	58.1	270.2	267.0	7	23	87.9	91.1	58.0	58.0		
		60.4	60.6	269.7	266.9	7	33	87.4	90.9	55.6	55.5		
176	4.2	40.9	40.5	276.6	270.8	7	27	83.9	88.8	45.6	45.3	5.2	1270
		43.3	43.0	275.9	270.5	7	37	83.1	88.5	43.2	42.8		
		45.8	45.5	275.2	270.3	7	47	82.4	88.2	40.8	40.3		
188	2.9	37.7	37.6	274.6	268.1	7	38	83.1	88.5	42.9	42.6	5.2	1270
		40.2	40.1	273.9	268.0	7	48	82.3	88.2	40.5	40.1		
		42.7	42.6	273.3	267.9	7	58	81.4	87.8	38.1	37.6		
169	4.1	50.2	50.1	273.9	269.8	7	56	83.9	87.4	55.4	55.1	4.5	437
		52.7	52.5	273.4	269.6	8	6	83.3	87.1	53.0	52.6		
		55.1	55.0	272.8	269.4	8	16	82.6	86.7	50.6	50.1		
209	2.9	40.2	40.2	272.7	266.7	8	16	85.0	90.0	45.0	44.8	4.6	1292
		42.6	42.7	272.1	266.7	8	26	84.3	89.8	42.6	42.3		
		45.1	45.2	271.6	266.6	8	36	83.6	89.5	40.1	39.8		
210	1.8	43.3	42.8	278.9	273.6	8	26	81.9	86.4	48.1	47.6	4.5	437
		45.8	45.3	278.1	273.3	8	36	81.1	86.0	45.7	45.1		
		48.2	47.8	277.4	272.9	8	46	80.3	85.6	43.2	42.6		
210	1.8	48.5	48.0	277.3	272.9	8	47	83.2	86.9	53.5	53.1	4.0	460
		50.9	50.5	276.6	272.6	8	57	82.5	86.6	51.1	50.6		
		53.4	53.0	276.0	272.3	9	7	81.8	86.2	48.6	48.1		
194	4.3	56.3	56.8	266.7	263.4	9	2	90.7	93.5	61.3	61.4	4.5	490
		58.8	59.2	266.4	263.4	9	12	90.3	93.3	58.8	59.0		
		61.3	61.7	266.0	263.3	9	22	89.9	93.2	56.3	56.5		
209	2.9	54.0	54.1	269.9	266.3	9	12	90.3	93.3	58.8	59.0	4.5	490
		56.4	56.6	269.5	266.2	9	22	89.9	93.2	56.3	56.5		
		58.9	59.1	269.1	266.1	9	32	89.4	93.1	53.9	54.0		
1170	5.1	48.2	48.6	268.4	264.0	9	34	89.4	93.1	53.4	53.5	4.5	490
		50.7	51.0	268.0	264.0	9	44	88.9	92.9	50.9	51.0		
		53.2	53.5	267.7	264.0	9	54	88.4	92.8	48.5	48.5		
1175	5.0	50.6	50.2	276.7	272.6	9	53	83.7	87.1	55.7	55.3	3.4	501
		53.0	52.6	276.1	272.3	10	3	83.1	86.8	53.2	52.8		
		55.5	55.1	275.5	272.0	10	13	82.4	86.5	50.8	50.3		
1175	5.0	54.2	53.9	275.8	272.2	10	8	82.0	85.0	59.0	58.5	4.3	516
		56.7	56.4	275.2	271.9	10	18	81.3	84.6	56.6	56.0		
		59.1	58.9	274.6	271.6	10	28	80.6	84.2	54.2	53.5		
1187	4.1	49.4	48.9	278.1	273.8	10	26	80.8	84.3	54.7	54.0	4.3	516
		51.9	51.4	277.4	273.4	10	36	80.0	83.9	52.2	51.5		
		54.3	53.9	276.7	273.1	10	46	79.2	83.5	49.8	49.1		
1186	5.0	52.3	52.3	272.4	268.5	10	39	86.1	89.3	57.2	57.0	5.0	533
		54.8	54.8	271.9	268.4	10	49	85.5	89.1	54.7	54.5		
		57.2	57.2	271.4	268.2	10	59	84.9	88.8	52.3	52.0		
1187	4.1	55.1	54.6	276.5	273.0	10	49	81.8	84.7	60.0	59.4	3.8	547
		57.5	57.1	275.9	272.7	10	59	81.2	84.4	57.6	56.9		
		60.0	59.6	275.3	272.4	11	9	80.5	84.0	55.1	54.5		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z.D.		AZ				Z.D.		AZ			
		LAT-10	LAT -5	LAT-10	LAT -5	HRS	MIN	LAT-10	LAT -5	LAT-10	LAT -5		
304	5.1	46.1	45.9	274.6	269.8	11	3	84.7	88.7	51.3	51.0	5.0	533
		48.6	48.4	274.0	269.6	11	13	88.0	88.4	48.8	48.5		
		51.1	50.9	273.4	269.4	11	23	83.4	88.1	46.4	46.0		
293	4.1	53.6	54.1	265.5	261.9	11	18	94.9	97.9	58.6	59.1	2.7	564
		56.0	56.6	265.2	261.9	11	28	94.6	97.9	56.1	56.6		
		58.5	59.1	264.9	261.9	11	38	94.3	97.9	53.7	54.2		
1230	5.2	40.2	39.8	276.7	270.7	11	28	83.0	88.0	45.2	44.8	5.0	533
		42.6	42.3	275.9	270.5	11	38	82.2	87.7	42.7	42.3		
		45.1	44.8	275.3	270.3	11	48	81.4	87.3	40.3	39.8		
304	5.1	56.2	56.2	272.3	269.0	11	44	88.3	91.1	61.0	61.0	3.6	585
		58.7	58.6	271.8	268.8	11	54	87.8	90.9	58.5	58.5		
		61.1	61.1	271.4	268.6	12	4	87.3	90.7	56.1	56.0		
316	4.0	53.0	52.9	272.7	269.0	11	57	87.7	90.8	57.8	57.7	3.6	585
		55.5	55.4	272.2	268.8	12	7	87.2	90.6	55.4	55.3		
		57.9	57.9	271.7	268.6	12	17	86.6	90.4	52.9	52.8		
316	4.0	56.0	55.9	272.1	268.7	12	9	88.6	91.4	60.9	60.9	3.0	603
		58.4	58.4	271.6	268.6	12	19	88.1	91.2	58.4	58.4		
		60.9	60.9	271.2	268.4	12	29	87.6	91.0	56.0	55.9		
1250	4.1	48.6	48.1	277.5	273.1	12	51	81.1	84.8	53.4	52.8	4.8	1427
		51.0	50.6	276.8	272.8	13	1	80.4	84.4	51.0	50.3		
		53.5	53.1	276.2	272.4	13	11	79.6	84.0	48.6	47.8		
1263	5.4	50.7	51.1	267.8	263.8	13	42	89.3	92.7	55.6	55.7	4.6	647
		53.2	53.5	267.5	263.8	13	52	88.8	92.6	53.1	53.2		
		55.6	56.0	267.1	263.8	14	2	88.4	92.5	50.6	50.7		
1292	4.6	50.6	50.5	273.6	269.5	14	38	86.7	90.1	55.6	55.5	3.4	686
		53.1	52.9	273.1	269.3	14	48	86.1	89.9	53.1	53.0		
		55.5	55.4	272.6	269.1	14	58	85.5	89.6	50.7	50.5		
1299	4.8	49.1	49.6	265.8	261.5	14	55	93.0	96.6	54.1	54.5	4.1	1482
		51.5	52.1	265.5	261.6	15	5	92.7	96.6	51.6	52.0		
		54.0	54.5	265.2	261.7	15	15	92.3	96.6	49.1	49.5		
1299	4.8	53.7	54.3	265.3	261.6	15	14	93.3	96.3	58.6	59.0	5.4	1500
		56.2	56.8	265.0	261.7	15	24	92.9	96.3	56.2	56.6		
		58.6	59.2	264.7	261.7	15	34	92.6	96.2	53.7	54.1		
1299	4.9	56.7	57.2	264.9	261.7	15	26	92.7	95.4	61.7	62.1	5.0	737
		59.1	59.7	264.6	261.7	15	36	92.3	95.3	59.3	59.6		
		61.6	62.2	264.3	261.7	15	46	92.0	95.2	56.8	57.1		
1335	4.9	40.3	40.8	267.2	261.4	15	37	92.9	97.8	45.4	45.8	4.7	1486
		42.8	43.3	266.9	261.5	15	47	92.6	97.9	42.9	43.4		
		45.2	45.7	266.6	261.7	15	57	92.3	98.1	40.5	40.9		
1335	4.9	40.6	41.1	267.1	261.4	15	38	91.8	96.7	45.5	45.9	5.1	702
		43.0	43.5	266.9	261.6	15	48	91.5	96.8	43.1	43.4		
		45.5	46.0	266.6	261.7	15	58	91.1	96.9	40.6	40.9		
490	4.5	39.6	39.6	273.6	267.5	15	48	86.6	91.7	44.4	44.4	4.5	1489
		42.1	42.1	273.0	267.4	15	58	86.0	91.6	42.0	41.9		
		44.6	44.6	272.4	267.3	16	8	85.4	91.4	39.5	39.4		
1335	4.9	47.2	47.7	266.4	261.8	16	5	91.2	95.1	52.2	52.4	5.0	737
		49.7	50.2	266.1	261.9	16	15	90.8	95.0	49.7	49.9		
		52.1	52.6	265.8	261.9	16	25	90.4	95.0	47.2	47.5		
1355	5.2	39.4	38.7	268.7	262.5	16	16	91.1	96.3	43.4	43.7	5.4	1500
		40.8	41.2	268.4	262.6	16	26	90.7	96.4	40.9	41.2		
		43.3	43.7	268.0	262.8	16	36	90.3	96.5	38.5	38.7		
1355	5.2	41.3	41.7	268.3	262.7	16	28	90.3	95.0	46.5	46.7	5.0	737
		43.8	44.2	268.0	262.8	16	38	89.9	95.0	44.0	44.2		
		46.2	46.6	267.6	262.9	16	48	89.4	95.0	41.6	41.8		
1335	4.9	56.3	56.8	265.3	262.0	16	42	94.9	97.6	61.4	62.0	4.8	1547
		58.7	59.3	265.0	262.0	16	52	94.6	97.6	59.0	59.5		
		61.2	61.8	264.7	262.0	17	2	94.3	97.6	56.5	57.1		
498	1.2	51.8	52.5	263.7	259.9	16	55	95.0	98.2	57.0	57.6	3.8	781
		54.2	54.9	263.5	260.0	17	5	94.7	98.2	54.5	55.1		
		56.7	57.4	263.3	260.1	17	15	94.4	98.2	52.1	52.6		
533	5.0	40.9	40.5	278.4	272.6	17	9	81.4	86.3	46.0	45.4	3.4	756
		43.4	43.0	277.5	272.2	17	19	80.6	85.9	43.5	42.9		
		45.8	45.4	276.8	271.9	17	29	79.7	85.5	41.1	40.5		
523	4.3	46.0	46.6	265.5	260.7	17	19	94.3	98.3	51.1	51.6	3.8	781
		48.5	49.1	265.2	260.9	17	29	94.0	98.3	48.6	49.2		
		50.9	51.5	264.9	261.0	17	39	93.7	98.4	46.2	46.7		
1355	5.2	56.3	56.8	266.3	263.0	17	29	93.6	96.3	61.1	61.5	4.8	1565
		58.8	59.2	265.9	263.0	17	39	93.3	96.3	58.7	59.1		
		61.2	61.7	265.6	262.9	17	49	92.9	96.2	56.2	56.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D. LAT-10 LAT -5	Z.D. LAT -5	LAT-10 LAT -5	LAT -5	HRS MIN	LAT-10 LAT -5	LAT-10 LAT -5	LAT -5	Z.D. LAT-10 LAT -5	Z.D. LAT -5		
525	4.2	51.6	51.8	270.4	266.4	17 43	90.2	93.5	56.5	56.6		3.1	808
		54.1	54.2	269.9	266.3	17 53	89.8	93.4	54.0	54.1			
		56.5	56.7	269.5	266.2	18 3	89.3	93.3	51.5	51.6			
560	2.7	38.9	39.4	267.5	261.4	17 54	92.7	97.9	43.8	44.2		4.8	1547
		41.4	41.9	267.2	261.6	18 4	92.4	98.0	41.3	41.8			
		43.9	44.4	266.9	261.8	18 14	92.1	98.2	38.8	39.3			
533	5.0	54.9	54.7	274.5	270.9	18 6	84.7	87.6	60.1	59.8		3.2	827
		57.4	57.2	273.9	270.7	18 16	84.1	87.3	57.7	57.3			
		59.8	59.6	273.4	270.4	18 26	83.5	87.0	55.2	54.8			
564	2.7	44.4	44.8	266.9	261.8	18 16	92.0	96.2	49.6	49.9		4.8	1569
		46.8	47.3	266.6	261.9	18 26	91.6	96.2	47.1	47.4			
		49.3	49.8	266.3	262.0	18 36	91.2	96.2	44.6	45.0			
545	4.0	56.6	56.7	269.9	266.6	18 30	89.5	92.2	61.4	61.6		5.3	1595
		59.0	59.2	269.5	266.5	18 40	89.0	92.1	58.9	59.0			
		61.5	61.7	269.1	266.4	18 50	88.6	91.9	56.5	56.5			
1479	4.3	47.2	47.8	265.6	261.0	18 45	92.2	96.1	52.0	52.4		4.3	840
		49.7	50.3	265.3	261.1	18 55	91.9	96.1	49.6	49.9			
		52.1	52.7	265.1	261.2	19 5	91.5	96.1	47.1	47.5			
585	3.6	46.7	46.5	274.8	270.1	18 55	84.0	87.9	51.8	51.4		4.0	842
		49.2	49.0	274.2	269.9	19 5	83.3	87.6	49.3	48.9			
		51.6	51.5	273.6	269.7	19 15	82.6	87.3	46.9	46.5			
564	2.7	56.4	56.9	265.4	262.1	19 5	95.1	97.8	61.5	62.1		4.5	1609
		58.8	59.4	265.1	262.1	19 15	94.8	97.7	59.0	59.6			
		61.3	61.9	264.8	262.1	19 25	94.5	97.7	56.6	57.1			
622	2.7	39.3	40.1	265.6	259.6	19 16	91.1	96.2	44.4	44.7		4.3	840
		41.8	42.4	265.3	259.9	19 26	90.7	96.2	42.0	42.3			
		44.2	44.9	265.1	260.1	19 36	90.3	96.3	39.5	39.8			
622	2.7	43.7	44.4	265.2	260.0	19 34	91.5	95.8	48.8	49.1		3.8	864
		46.2	46.8	265.0	260.2	19 44	91.1	95.9	46.4	46.7			
		48.6	49.3	264.7	260.4	19 54	90.7	95.9	43.9	44.2			
622	2.7	46.7	47.3	264.9	260.3	19 46	93.8	97.8	51.4	51.9		4.5	1606
		49.1	49.8	264.7	260.4	19 56	93.5	97.8	49.0	49.5			
		51.6	52.2	264.4	260.5	20 6	93.2	97.9	46.5	47.0			
655	2.3	54.0	55.1	271.3	267.4	19 58	88.4	91.3	59.7	59.7		5.1	900
		57.4	57.5	271.0	267.7	20 8	87.9	91.1	57.3	57.2			
		60.9	61.0	270.4	267.5	20 18	87.4	91.0	54.8	54.8			
622	2.7	54.2	54.0	264.2	260.6	20 17	94.5	97.4	59.5	60.0		3.8	9
		56.7	57.4	263.9	260.7	20 27	94.2	97.4	57.0	57.5			
		59.2	59.9	263.6	260.7	20 37	93.9	97.4	54.5	55.0			
647	4.6	46.4	46.4	272.5	267.8	20 32	86.7	90.7	51.4	51.7		5.1	900
		48.9	48.9	272.0	267.6	20 42	86.1	90.5	48.9	48.8			
		51.4	51.4	271.5	267.5	20 52	85.5	90.3	46.5	46.7			
1445	5.0	56.5	56.6	271.6	269.3	20 47	86.0	88.7	61.5	61.2		4.9	1022
		59.0	59.0	271.1	269.1	20 57	85.4	88.4	59.0	58.8			
		61.5	61.5	270.6	267.9	21 7	84.8	88.2	56.6	56.3			
673	3.5	44.3	44.9	266.2	261.2	20 58	93.2	97.5	49.4	49.9		3.8	9
		46.8	47.3	265.9	261.3	21 8	92.9	97.5	46.9	47.4			
		49.2	49.9	265.7	261.4	21 18	92.6	97.6	44.5	44.9			
1487	4.1	38.0	38.3	269.4	263.0	21 8	88.3	93.6	43.0	43.0		4.7	1636
		40.5	40.8	269.0	263.1	21 18	87.7	93.6	40.5	40.5			
		42.9	43.3	268.6	263.3	21 28	87.2	93.6	38.0	38.1			
1482	4.1	39.5	39.8	269.3	263.0	21 10	87.9	93.2	43.3	43.4		4.7	1002
		41.0	41.3	268.9	263.2	21 20	87.3	93.1	40.9	40.9			
		43.4	43.8	268.5	263.3	21 30	86.8	93.1	38.4	38.4			
1486	4.7	39.1	39.6	267.9	261.8	21 20	92.5	97.7	44.0	44.4		3.8	9
		41.6	42.1	267.6	262.1	21 30	92.2	97.8	41.5	42.0			
		44.1	44.5	267.2	262.1	21 40	91.9	98.0	39.1	39.5			
673	3.5	52.4	53.0	265.3	261.5	21 31	93.5	96.7	57.2	57.7		3.8	47
		54.9	55.5	265.0	261.6	21 41	93.1	96.6	54.8	55.2			
		57.3	57.9	264.7	261.6	21 51	92.8	96.6	52.3	52.7			
1486	4.7	47.0	47.5	266.9	262.3	21 52	92.8	96.6	52.1	52.5		3.8	47
		49.5	50.0	266.6	262.3	22 2	92.4	96.6	49.6	50.0			
		51.9	52.4	266.3	262.4	22 12	92.1	96.7	47.1	47.5			
762	5.1	47.0	47.4	267.9	263.3	21 53	92.7	96.6	51.8	52.2		3.8	47
		49.5	49.9	267.6	263.4	22 3	92.4	96.6	49.4	49.7			
		51.9	52.4	267.2	263.4	22 13	92.0	96.7	46.9	47.3			
1489	4.5	49.3	49.3	272.3	269.0	22 4	87.5	91.1	54.3	54.3		5.3	1045
		51.8	51.8	271.8	267.9	22 14	87.0	90.9	51.9	51.8			
		54.2	54.3	271.3	267.7	22 24	86.4	90.7	49.4	49.3			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-10	LAT -5	LAT-10	LAT -5	LAT-10	LAT -5	LAT-10	LAT -5		
717	3.6	47.0	47.0	272.6	267.9	22	14	87.0	90.9	51.9	51.8	5.3	1049
		49.5	49.5	272.1	267.8	22	24	86.4	90.7	49.4	49.3		
		52.0	52.0	271.6	267.7	22	34	85.8	90.5	47.0	46.8		
717	3.6	56.1	56.2	270.8	267.4	22	51	88.8	91.6	61.0	61.0	5.3	1080
		58.6	58.7	270.3	267.3	23	1	88.3	91.4	58.5	58.5		
		61.1	61.2	269.9	267.1	23	11	87.8	91.2	56.0	56.0		
756	3.4	46.8	46.3	278.3	271.6	23	15	81.7	85.6	51.6	51.1	4.0	91
		49.2	48.8	277.5	273.2	23	25	80.9	85.2	49.2	48.6		
		51.7	51.3	276.9	272.9	23	35	80.1	84.8	46.8	46.1		
746	4.7	54.5	53.9	278.4	274.8	23	26	80.1	83.0	59.3	58.6	5.0	1093
		56.9	56.4	277.8	274.5	23	36	79.4	82.6	56.9	56.1		
		59.4	58.9	277.1	274.1	23	46	78.6	82.2	54.5	53.7		
781	3.8	42.9	43.5	266.7	261.4	23	41	93.1	97.6	47.9	46.4	4.1	104
		45.4	45.9	266.4	261.5	23	51	92.8	97.7	45.5	45.9		
		47.9	48.4	266.1	261.6	24	1	92.5	97.8	43.0	42.4		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO
		Z. D.		AZ			Z. D.		AZ			
		LAT -5	LAT 0	LAT -5	LAT 0	HRS MIN	LAT -5	LAT 0	LAT -5	LAT 0		
1533	5.1	51.8	51.9	270.2	266.2	23 56	88.2	91.5	56.9	56.9	5.1	137
		54.2	54.4	270.0	266.4	0 6	87.9	91.5	54.4	54.4		
		56.7	56.9	269.7	266.5	0 16	87.6	91.6	51.9	51.9		
808	3.1	42.2	42.7	267.1	261.6	0 20	92.4	97.0	47.2	47.6	4.8	1097
		44.7	45.2	267.0	262.0	0 30	92.3	97.3	44.7	45.1		
		47.2	47.6	266.9	262.3	0 40	92.1	97.6	42.2	42.7		
1543	4.6	55.8	56.2	267.2	263.9	0 31	91.1	93.9	60.9	61.1	4.1	165
		58.3	58.7	267.1	264.0	0 41	90.9	94.0	58.4	58.6		
		60.8	61.2	266.9	264.2	0 51	90.7	94.1	55.9	56.1		
1569	4.8	46.6	47.3	263.8	259.2	0 44	94.8	98.7	51.5	52.0	4.1	154
		49.1	49.8	263.8	259.6	0 54	94.8	99.1	49.0	49.6		
		51.6	52.3	263.8	259.9	1 4	94.8	99.4	46.5	47.1		
808	3.1	51.4	51.8	266.7	262.8	0 57	90.7	93.9	56.7	56.9	4.2	176
		53.9	54.3	266.6	263.0	1 7	90.5	94.0	54.2	54.4		
		56.4	56.8	266.5	263.2	1 17	90.3	94.2	51.8	51.9		
803	3.1	54.4	54.8	266.6	263.1	1 9	93.0	95.9	59.2	59.6	2.9	188
		56.9	57.3	266.5	263.3	1 19	92.8	96.1	56.7	57.1		
		59.3	59.8	266.4	263.4	1 29	92.7	96.3	54.2	54.6		
827	3.2	48.7	48.6	273.8	269.4	1 19	83.4	87.0	54.0	53.6	3.9	180
		51.2	51.1	273.5	269.5	1 29	82.9	86.9	51.5	51.1		
		53.7	53.6	273.2	269.5	1 39	82.4	86.8	49.1	48.6		
840	4.3	48.6	49.3	263.9	259.6	1 31	92.7	96.3	53.7	54.1	2.9	188
		51.0	51.7	263.9	259.9	1 41	92.5	96.5	51.3	51.6		
		53.5	54.2	263.9	260.3	1 51	92.4	96.8	48.8	49.2		
842	4.0	50.1	50.1	272.2	268.1	1 41	87.0	90.5	55.0	54.9	4.7	1147
		52.6	52.6	272.0	268.1	1 51	86.7	90.5	52.6	52.4		
		55.1	55.1	271.7	268.2	2 1	86.3	90.5	50.1	49.9		
827	3.2	56.7	56.6	272.8	269.5	1 51	86.7	89.4	61.9	61.7	5.3	1161
		59.2	59.1	272.5	269.5	2 1	86.4	89.4	59.4	59.2		
		61.6	61.6	272.2	269.5	2 11	86.1	89.3	56.9	56.7		
864	3.8	47.6	48.3	264.1	259.7	2 3	93.6	97.4	52.6	53.1	2.9	295
		50.1	50.8	264.2	260.1	2 13	93.5	97.7	50.1	50.6		
		52.6	53.2	264.1	260.4	2 23	93.5	98.0	47.6	48.1		
1607	4.4	45.0	45.5	266.3	261.4	2 14	93.5	97.7	49.9	50.4	2.9	209
		47.5	48.0	266.2	261.7	2 24	93.5	98.0	47.4	47.9		
		49.9	50.5	266.2	262.0	2 34	93.4	98.3	44.9	45.4		
864	3.3	54.1	54.7	264.1	260.6	2 29	92.6	95.5	59.3	59.6	5.0	246
		56.5	57.2	264.1	260.8	2 39	92.4	95.7	56.8	57.1		
		59.0	59.7	264.0	261.1	2 49	92.3	95.8	54.3	54.6		
873	3.0	51.6	51.0	278.1	274.1	2 40	81.1	84.4	56.4	55.8	4.5	244
		54.0	53.5	277.6	273.9	2 50	80.6	84.3	54.0	53.3		
		56.5	56.0	277.2	273.8	3 0	80.1	84.1	51.5	50.8		
1620	4.6	49.2	47.8	276.8	272.3	2 52	80.5	84.2	53.5	52.8	4.5	244
		50.6	50.3	276.3	272.2	3 2	80.0	84.0	51.0	50.3		
		53.1	52.8	275.0	272.1	3 12	79.4	83.8	48.6	47.8		
1620	4.6	51.1	50.8	276.2	272.2	3 4	83.7	87.1	56.1	55.7	4.7	258
		53.6	53.3	275.8	272.1	3 14	83.3	87.0	53.7	53.2		
		56.1	55.8	275.4	272.1	3 24	82.8	86.9	51.2	50.7		
1630	4.7	50.8	51.3	266.2	262.1	3 25	91.7	95.1	55.9	56.2	5.0	1186
		53.3	53.8	266.1	262.4	3 35	91.5	95.2	53.4	53.7		
		55.7	56.2	266.0	262.6	3 45	91.4	95.4	50.9	51.2		
1002	4.7	50.4	50.9	266.6	262.5	3 27	91.7	95.1	55.4	55.7	5.0	1186
		52.9	53.4	266.5	262.7	3 37	91.5	95.3	52.9	53.2		
		55.4	55.9	266.4	263.0	3 47	91.3	95.4	50.4	50.7		
1630	4.7	54.2	54.7	266.0	262.5	3 39	91.8	94.7	59.1	59.4	5.2	289
		56.7	57.2	265.9	262.7	3 49	91.6	94.9	56.6	56.9		
		59.2	59.7	265.8	262.9	3 59	91.4	95.0	54.1	54.4		
1002	4.7	53.7	54.1	266.4	262.8	3 40	91.7	94.7	58.9	59.2	5.2	289
		56.2	56.6	266.3	263.0	3 50	91.6	94.9	56.4	56.7		
		58.6	59.1	266.2	263.2	4 0	91.4	95.0	53.9	54.2		
1022	4.9	44.8	44.8	273.3	268.2	3 51	86.4	90.6	50.1	50.0	4.1	1167
		47.3	47.3	272.9	268.3	4 1	86.0	90.6	47.6	47.5		
		49.8	49.8	272.6	268.4	4 11	85.7	90.6	45.1	45.0		
1049	5.3	44.4	44.7	269.7	264.6	4 40	90.5	94.7	49.6	49.8	5.1	304
		46.9	47.2	269.5	264.8	4 50	90.3	94.9	47.1	47.3		
		49.4	49.7	269.3	265.0	5 0	90.1	95.1	44.6	44.8		
1034	5.3	55.4	54.9	277.8	274.3	4 56	80.2	83.0	60.5	59.8	3.3	334
		57.9	57.4	277.3	274.2	5 6	79.7	82.8	58.0	57.3		
		60.4	59.9	276.9	274.1	5 16	79.2	82.6	55.6	54.8		

CATNO	MAG	WEST STAR		AZ		LST	AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT -5	LAT 0		LAT -5	LAT 0	LAT -5	LAT 0		
65	4.9	51.0	50.4	278.1	274.0	5 14	79.3	82.7	56.1	55.3	3.3	334
		53.4	52.9	277.6	273.9	5 24	78.7	82.4	53.6	52.8		
		55.9	55.4	277.2	273.8	5 34	78.1	82.2	51.2	50.3		
65	4.8	56.2	55.7	277.1	273.7	5 35	81.8	84.6	61.3	60.7	4.8	1249
		58.6	58.2	276.7	273.6	5 45	81.4	84.4	58.8	58.2		
		61.1	60.7	276.3	273.5	5 55	80.9	84.3	56.4	55.7		
91	4.0	47.1	46.9	275.0	270.3	5 46	83.1	86.9	52.3	51.9	3.8	347
		49.6	49.4	274.6	270.3	5 56	82.6	86.8	49.8	49.4		
		52.1	51.9	274.2	270.3	6 6	82.1	86.7	47.4	46.9		
1089	5.3	47.7	48.0	269.4	264.9	6 7	87.5	91.3	53.0	53.0	4.1	1250
		50.2	50.4	269.2	265.1	6 17	87.2	91.4	50.5	50.5		
		52.7	52.9	269.0	265.2	6 27	86.9	91.4	48.0	48.0		
1093	5.0	45.6	45.0	279.6	274.7	6 18	79.7	83.8	50.7	50.0	4.8	1249
		48.1	47.5	279.0	274.5	6 28	79.1	83.6	48.3	47.5		
		50.6	50.0	278.4	274.3	6 38	78.4	83.3	45.8	45.0		
137	5.1	42.0	41.9	273.7	268.2	6 31	86.8	91.4	47.0	47.0	4.1	1250
		44.5	44.4	273.4	268.2	6 41	86.4	91.5	44.6	44.5		
		46.9	46.9	273.0	268.3	6 51	86.0	91.6	42.1	42.6		
1097	4.8	49.6	50.0	267.5	263.3	6 49	89.7	93.2	54.8	54.9	5.2	1270
		52.1	52.5	267.4	263.5	6 59	89.5	93.3	52.3	52.4		
		54.6	55.0	267.2	263.7	7 9	89.2	93.4	49.8	49.9		
1093	5.0	55.7	55.2	277.4	274.0	6 59	82.9	85.7	60.7	60.2	5.1	1284
		58.2	57.7	277.0	273.9	7 9	82.5	85.6	58.2	57.7		
		60.7	60.2	276.6	273.8	7 19	82.0	85.5	55.8	55.2		
1097	4.8	55.6	56.0	267.2	263.8	7 13	91.2	94.1	60.5	60.7	4.6	1292
		58.1	58.5	267.0	264.0	7 23	91.1	94.2	58.0	58.2		
		60.6	61.0	266.9	264.1	7 33	90.9	94.3	55.5	55.7		
176	4.2	40.3	40.5	270.8	264.9	7 26	88.8	93.7	45.6	45.7	5.2	1270
		42.8	43.0	270.6	265.2	7 36	88.5	93.9	43.1	43.2		
		45.3	45.5	270.3	265.4	7 46	88.2	94.0	40.6	40.7		
180	2.9	37.6	38.1	268.1	261.7	7 38	88.5	93.9	42.6	42.7	5.2	1270
		40.1	40.6	268.0	262.1	7 48	88.2	94.1	40.1	40.2		
		42.6	43.0	267.9	262.5	7 58	87.8	94.3	37.6	37.7		
169	4.1	50.1	50.3	269.8	265.6	7 56	87.4	90.9	55.1	55.0	4.5	437
		52.5	52.7	269.6	265.7	8 6	87.1	90.9	52.6	52.5		
		55.0	55.2	269.4	265.9	8 16	86.7	90.9	50.1	50.0		
209	2.9	40.0	40.5	266.7	260.9	8 15	90.0	95.0	45.1	45.3	4.6	1292
		42.4	43.0	266.7	261.3	8 25	89.8	95.2	42.6	42.8		
		44.9	45.4	266.6	261.7	8 35	89.6	95.5	40.1	40.3		
206	2.5	45.2	45.0	274.5	269.6	8 31	83.3	87.5	50.1	49.7	3.8	445
		47.7	47.5	274.1	269.6	8 41	82.9	87.4	47.6	47.2		
		50.2	50.0	273.8	269.6	8 51	82.3	87.3	45.1	44.7		
210	1.8	48.0	48.0	272.9	268.4	8 47	86.9	90.7	53.1	53.0	4.0	460
		50.5	50.5	272.6	268.4	8 57	86.6	90.7	50.6	50.5		
		53.0	53.0	272.3	268.5	9 7	86.2	90.7	48.1	48.0		
194	0.3	56.5	57.2	263.4	260.2	9 1	93.5	96.1	61.7	62.1	4.5	490
		59.0	59.7	263.4	260.5	9 11	93.4	96.3	59.2	59.6		
		61.5	62.2	263.3	260.7	9 21	93.2	96.5	56.7	57.1		
209	2.9	54.1	54.6	266.3	262.7	9 12	93.3	96.3	59.0	59.4	4.5	490
		56.6	57.1	266.2	262.9	9 22	93.2	96.5	56.5	56.9		
		59.1	59.6	266.1	263.1	9 32	93.1	96.7	54.0	54.4		
258	4.7	39.7	39.1	279.9	273.9	9 23	80.0	85.1	44.8	44.2	5.1	1317
		42.2	41.6	279.2	273.7	9 33	79.4	84.8	42.4	41.7		
		44.6	44.1	278.6	273.5	9 43	78.6	84.6	39.9	39.2		
258	4.7	44.1	43.6	278.7	273.5	9 41	81.0	85.3	49.1	48.5	3.7	484
		46.6	46.1	278.1	273.4	9 51	80.4	85.1	46.6	46.0		
		49.1	48.6	277.6	273.2	10 1	79.7	84.9	44.2	43.5		
1175	5.0	50.2	50.1	272.6	268.4	9 53	87.1	90.6	55.3	55.2	3.4	501
		52.6	52.6	272.3	268.5	10 3	86.8	90.6	52.8	52.7		
		55.1	55.1	272.0	268.5	10 13	86.5	90.6	50.3	50.2		
1175	5.0	53.6	53.6	272.2	268.5	10 7	85.0	88.1	58.7	58.4	4.3	516
		56.1	56.1	271.9	268.5	10 17	84.7	88.0	56.2	55.9		
		58.6	58.6	271.6	268.6	10 27	84.3	88.0	53.8	53.4		
1187	4.1	48.9	48.8	273.8	269.4	10 26	84.3	88.0	54.0	53.7	4.3	516
		51.4	51.3	273.4	269.4	10 36	83.9	87.9	51.5	51.2		
		53.9	53.8	273.1	269.4	10 46	83.5	87.8	49.1	48.7		
1186	5.0	52.0	52.3	268.6	264.7	10 38	89.3	92.5	57.2	57.3	5.0	533
		54.5	54.8	268.4	264.9	10 48	89.1	92.6	54.7	54.8		
		57.0	57.3	268.2	265.0	10 58	88.8	92.7	52.3	52.3		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z.D.		AZ				Z.D.		AZ			
		LAT	-5 LAT	LAT	0	HRS	MIN	LAT	-5 LAT	LAT	0		
1187	4.1	54.4	54.3	273.0	269.4	10	48	84.6	87.7	59.7	55.3	3.8	547
		56.9	56.8	272.7	269.5	10	58	84.4	87.6	57.2	56.8		
		59.4	59.3	272.4	269.5	11	8	84.0	87.6	54.7	54.3		
304	5.1	45.9	46.2	265.8	265.0	11	3	88.7	92.7	51.0	51.1	5.0	533
		48.4	48.7	269.6	265.2	11	13	88.4	92.9	48.5	48.6		
		50.9	51.2	265.4	265.3	11	23	88.1	93.0	46.0	46.1		
316	4.0	42.7	43.0	269.8	264.4	11	16	88.3	92.9	47.8	47.8	5.0	533
		45.2	45.5	269.5	264.6	11	26	88.1	93.0	45.3	45.3		
		47.7	48.0	269.4	264.8	11	36	87.7	93.1	42.8	42.8		
1237	5.2	39.8	40.0	270.7	264.8	11	28	88.0	93.0	44.8	44.8	5.0	533
		42.3	42.5	270.5	265.0	11	38	87.7	93.2	42.3	42.3		
		44.8	45.0	270.3	265.2	11	48	87.3	93.3	39.8	39.8		
304	5.1	56.2	56.4	269.0	265.6	11	44	91.1	93.8	61.0	61.2	3.6	585
		58.6	58.9	268.8	265.8	11	54	90.9	93.9	58.5	58.7		
		61.1	61.4	268.6	265.9	12	4	90.7	94.1	56.0	56.2		
316	4.0	52.9	53.2	269.0	265.2	11	57	90.8	94.0	57.7	58.0	3.6	585
		55.4	55.7	268.8	265.3	12	7	90.6	94.1	55.3	55.5		
		57.9	58.2	268.6	265.5	12	17	90.4	94.2	52.8	53.0		
316	4.0	55.9	56.2	268.7	265.4	12	9	91.4	94.2	60.9	61.1	3.6	603
		58.4	58.7	268.6	265.5	12	19	91.2	94.3	58.4	58.6		
		60.9	61.2	268.4	265.6	12	29	91.0	94.4	55.9	56.2		
347	3.8	47.7	47.2	277.9	273.3	12	22	80.4	84.2	52.8	52.1	3.8	588
		50.2	49.7	277.7	273.1	12	32	79.9	84.0	50.3	49.6		
		52.6	52.2	276.9	273.0	12	42	79.3	83.8	47.9	47.1		
1250	4.1	47.9	47.8	273.1	268.6	12	50	84.9	88.6	53.1	52.8	4.8	1427
		50.4	50.3	272.8	268.6	13	0	84.5	88.6	50.6	50.3		
		52.8	52.8	272.5	268.7	13	10	84.0	88.5	48.1	47.8		
1263	5.4	50.8	51.5	263.8	259.8	13	41	92.7	96.1	55.9	56.3	4.6	647
		53.3	54.0	263.8	263.1	13	51	92.6	96.3	53.4	53.8		
		55.8	56.5	263.8	260.4	14	1	92.5	96.5	50.9	51.3		
1284	5.1	46.6	46.0	279.9	275.2	14	3	80.6	84.6	51.4	50.8	4.4	1455
		49.1	48.5	279.3	275.0	14	13	80.1	84.4	48.9	48.3		
		51.6	51.0	278.8	274.8	14	23	79.4	84.2	46.5	45.8		
1257	5.2	43.2	42.6	279.7	274.4	14	17	79.8	84.3	48.0	47.3	4.4	1459
		45.7	45.1	279.1	274.2	14	27	79.2	84.1	45.5	44.8		
		48.1	47.5	278.5	274.0	14	37	78.5	83.8	43.1	42.3		
445	3.8	47.1	39.6	278.0	272.9	14	28	79.1	84.1	45.3	44.5	4.4	1455
		42.6	42.1	278.3	272.8	14	38	78.4	83.8	42.8	42.0		
		45.1	44.6	277.7	272.7	14	48	77.6	83.5	40.4	39.6		
445	3.8	47.6	42.1	278.3	272.8	14	38	81.8	86.3	47.8	47.3	3.7	668
		45.1	44.6	277.7	272.7	14	48	81.2	86.1	45.3	44.8		
		47.5	47.1	277.2	272.6	14	58	80.6	86.0	42.9	42.3		
445	3.8	46.8	46.4	277.3	272.6	14	55	81.7	85.7	51.8	51.3	4.9	1476
		49.3	48.9	276.8	272.5	15	5	81.2	85.5	49.4	48.8		
		51.7	51.4	276.4	272.4	15	15	80.6	85.3	46.9	46.3		
445	3.8	51.2	53.9	276.5	272.4	15	13	81.6	84.9	56.2	55.7	4.5	709
		53.7	53.4	276.0	272.3	15	23	81.1	84.8	53.8	53.2		
		56.2	55.9	275.6	272.3	15	33	80.6	84.6	51.3	50.7		
445	3.8	54.7	54.4	275.9	272.3	15	27	83.5	86.4	59.9	59.4	3.4	730
		57.2	56.9	275.5	272.2	15	37	83.1	86.3	57.4	56.9		
		59.7	59.4	275.1	272.2	15	47	82.7	86.2	54.9	54.4		
475	4.8	45.5	46.2	263.9	259.0	15	41	92.3	96.3	50.8	51.2	3.6	717
		48.0	48.7	263.9	259.5	15	51	92.1	96.5	48.4	48.7		
		50.4	51.1	263.9	259.9	16	1	92.0	96.8	45.9	46.2		
460	4.0	54.1	54.0	272.9	269.3	15	55	85.9	88.9	59.3	59.1	4.0	746
		56.6	56.5	272.6	269.3	16	5	85.6	88.9	56.9	56.6		
		59.1	59.0	272.3	269.4	16	15	85.2	88.8	54.4	54.1		
490	4.5	44.8	45.3	267.3	262.3	16	9	89.5	93.7	50.1	50.2	5.2	1509
		47.3	47.8	267.2	262.7	16	19	89.3	93.8	47.6	47.7		
		49.8	50.2	267.1	262.9	16	29	89.0	94.0	45.1	45.2		
484	3.7	54.2	53.7	278.0	274.4	16	29	80.8	83.8	59.1	58.4	5.4	1531
		56.7	56.2	277.5	274.2	16	39	80.3	83.6	56.7	56.0		
		59.2	58.7	277.1	274.1	16	49	79.8	83.4	54.2	53.5		
490	4.5	54.5	55.0	266.9	263.4	16	48	93.0	95.9	59.4	59.8	4.6	1543
		57.0	57.4	266.8	263.6	16	58	92.8	96.1	56.9	57.3		
		59.5	59.9	266.6	263.7	17	8	92.7	96.2	54.4	54.8		
533	5.0	40.5	40.5	272.6	266.7	17	9	86.3	91.2	45.4	45.3	3.4	756
		43.0	43.0	272.2	266.9	17	19	85.9	91.3	42.9	42.8		
		45.4	45.5	271.9	267.0	17	29	85.5	91.4	40.5	40.3		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ				Z. D.		AZ			
		LAT -5	LAT 0	LAT -5	LAT 0	HRS	MIN	LAT -5	LAT 0	LAT -5	LAT 0		
525	4.2	46.3	46.8	266.6	261.9	17	21	92.5	96.5	51.2	51.6	4.6	1543
		48.8	49.3	266.5	262.2	17	31	92.4	96.8	48.7	49.1		
		51.3	51.8	266.4	262.5	17	41	92.3	97.0	46.2	46.6		
545	4.0	42.8	43.3	267.2	261.9	17	34	92.4	96.8	48.0	48.4	4.6	1543
		45.3	45.8	267.1	262.2	17	44	92.2	97.1	45.5	45.9		
		47.8	48.2	267.0	262.5	17	54	92.1	97.4	43.0	43.4		
516	4.3	56.2	55.9	275.3	272.0	17	44	84.2	87.0	61.0	60.6	5.5	1574
		58.7	58.4	275.0	271.9	17	54	83.9	86.9	58.5	58.1		
		61.1	60.9	274.6	271.9	18	4	83.5	86.9	56.0	55.6		
533	5.7	54.7	54.7	270.0	267.4	18	6	87.6	90.5	59.8	59.7	3.2	E27
		57.2	57.2	270.7	267.5	18	16	87.3	90.5	57.3	57.2		
		59.6	59.7	270.4	267.5	18	26	87.0	90.5	54.8	54.7		
545	4.0	56.5	56.9	266.6	263.3	18	29	92.2	94.9	61.7	62.0	5.3	1595
		59.0	59.4	266.5	263.5	18	39	92.1	95.0	59.2	59.5		
		61.5	61.9	266.4	263.7	18	49	91.9	95.2	56.7	57.0		
585	3.6	44.5	44.7	270.3	265.2	18	47	86.3	90.5	49.6	49.4	3.2	E27
		47.0	47.2	270.1	265.4	18	57	85.9	90.6	47.1	46.9		
		49.5	49.7	269.8	265.6	19	7	85.5	90.6	44.6	44.4		
603	3.0	43.3	43.5	270.0	264.7	19	7	87.6	92.0	48.4	48.4	4.6	842
		45.8	46.0	269.8	264.9	19	17	87.2	92.1	46.0	45.9		
		48.3	48.5	269.6	265.1	19	27	86.9	92.2	43.5	43.4		
605	3.3	44.8	45.1	268.4	263.4	19	17	91.4	95.7	49.8	50.1	5.3	1595
		47.3	47.6	268.3	263.7	19	27	91.3	95.9	47.3	47.6		
		49.7	50.1	268.1	263.9	19	37	91.1	96.1	44.6	45.1		
1427	4.8	48.1	47.7	276.0	271.5	19	32	81.6	85.3	53.4	52.8	4.6	1612
		50.5	50.2	275.5	271.4	19	42	81.1	85.2	50.9	50.3		
		53.0	52.7	275.1	271.4	19	52	80.5	85.0	48.5	47.8		
1427	4.3	50.8	50.5	275.5	271.4	19	43	85.2	88.6	56.0	55.7	4.9	E84
		53.3	53.0	275.1	271.3	19	53	84.9	88.6	53.5	53.2		
		55.8	55.5	274.7	271.3	20	3	84.5	88.5	51.0	50.7		
605	3.3	54.7	55.1	267.8	264.3	19	57	91.4	94.2	60.0	60.2	5.1	910
		57.2	57.6	267.7	264.5	20	7	91.2	94.3	57.5	57.7		
		59.7	60.0	267.5	264.6	20	17	91.0	94.5	55.0	55.2		
1445	5.0	49.6	49.0	268.7	264.5	20	19	90.9	94.5	54.5	54.7	5.1	930
		52.1	52.4	268.6	264.7	20	29	90.8	94.6	52.0	52.3		
		54.6	54.9	268.4	264.9	20	39	90.6	94.8	49.5	49.8		
647	4.6	46.4	46.8	267.9	263.1	20	32	90.7	94.7	51.3	51.5	5.1	910
		48.9	49.3	267.6	263.3	20	42	90.5	94.9	48.8	49.0		
		51.4	51.8	267.5	263.5	20	52	90.3	95.1	46.3	46.5		
1445	5.0	56.3	56.6	268.3	265.0	20	46	88.7	91.4	61.5	61.5	4.9	1122
		58.8	59.1	268.1	265.1	20	56	88.5	91.5	59.0	59.0		
		61.3	61.6	267.9	265.2	21	6	88.2	91.5	56.5	56.5		
668	3.7	54.3	53.8	277.0	273.4	21	22	82.9	85.9	59.2	58.8	5.3	1034
		56.7	56.3	276.6	273.3	21	32	82.5	85.8	56.8	56.3		
		59.2	58.8	276.2	273.2	21	42	82.0	85.6	54.3	53.8		
668	3.7	57.2	56.8	276.5	273.2	21	34	81.2	83.9	62.4	61.7	4.7	56
		59.7	59.3	276.1	273.2	21	44	80.8	83.7	59.9	59.2		
		62.2	61.8	275.7	273.1	21	54	80.4	83.6	57.5	56.8		
677	4.0	57.1	56.6	276.8	273.5	21	46	83.8	86.5	62.1	61.7	4.8	65
		59.6	59.1	276.4	273.4	21	56	83.5	86.4	59.6	59.2		
		62.0	61.6	276.0	273.3	22	6	83.1	86.3	57.1	56.7		
1509	5.2	37.8	37.9	271.8	265.4	22	1	86.4	91.8	42.8	42.8	4.9	1022
		40.3	40.4	271.5	265.6	22	11	86.0	91.9	40.4	40.3		
		42.8	42.9	271.2	265.8	22	21	85.6	92.0	37.9	37.8		
730	3.4	42.4	41.7	280.1	274.6	22	11	80.5	85.2	47.2	46.5	5.3	1034
		44.8	44.2	279.5	274.4	22	21	79.9	84.9	44.7	44.1		
		47.3	46.7	278.9	274.2	22	31	79.2	84.7	42.3	41.6		
746	4.0	38.8	38.4	277.8	271.5	22	25	79.6	84.9	43.7	43.1	5.3	1034
		41.3	40.9	277.2	271.5	22	35	78.9	84.6	41.3	40.6		
		43.7	43.4	276.6	271.4	22	45	78.1	84.3	38.8	38.1		
709	4.5	55.6	55.1	278.5	275.1	22	35	80.8	83.6	60.8	60.1	5.0	1072
		58.1	57.5	278.1	275.0	22	45	80.4	83.5	58.3	57.6		
		60.6	60.0	277.7	274.8	22	55	79.9	83.3	55.9	55.1		
730	3.4	52.0	51.4	277.0	273.9	22	50	80.1	83.4	57.1	56.4	5.0	1072
		54.4	53.9	277.4	273.8	23	0	79.6	83.2	54.6	53.9		
		56.9	56.4	277.0	273.7	23	10	79.1	82.9	52.2	51.4		
730	3.4	55.2	54.7	277.3	273.8	23	3	82.5	85.3	60.2	59.6	2.8	107
		57.6	57.2	276.8	273.7	23	13	82.0	85.2	57.7	57.1		
		60.1	59.7	276.5	273.6	23	23	81.6	85.1	55.2	54.7		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z.D.		AZ				Z.D.		AZ			
		LAT -5	LAT 0	LAT -5	LAT 0			LAT -5	LAT 0	LAT -5	LAT 0		
756	3.4	46.0	45.9	273.6	268.8	23	14	85.7	89.7	51.3	51.1	4.0	91
		48.5	48.4	273.3	268.8	23	24	85.3	89.7	48.8	48.6		
		51.0	50.9	272.9	268.9	23	34	84.9	89.7	46.4	46.1		
746	4.0	53.7	53.4	274.9	271.2	23	25	83.1	86.1	58.9	58.4	5.0	1093
		56.1	55.9	274.5	271.2	23	35	82.7	86.0	56.4	55.9		
		58.6	58.4	274.2	271.1	23	45	82.2	85.9	53.9	53.4		
756	3.4	53.3	53.2	272.6	268.9	23	43	86.5	89.6	58.4	58.2	4.4	1101
		55.7	55.7	272.3	268.9	23	53	86.2	89.6	55.9	55.7		
		58.2	58.2	272.1	269.0	24	3	85.9	89.6	53.4	53.2		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	Z.D.	Z.D.	HRS	MIN	Z.D.	Z.D.	Z.D.	Z.D.		
		LAT 0 LAT 5	LAT 0 LAT 5	LAT 0 LAT 5	LAT 0 LAT 5			LAT 0 LAT 5	LAT 0 LAT 5	LAT 0 LAT 5	LAT 0 LAT 5		
730	3.4	41.7	41.6	274.6	269.0	22	11	85.2	89.9	46.5	46.3	5.3	1034
		44.2	44.1	274.4	269.3	22	21	84.9	90.1	44.1	43.8		
		46.7	46.5	274.2	269.5	22	31	84.7	90.4	41.6	41.3		
730	3.4	44.5	44.3	274.4	269.3	22	22	82.9	87.2	49.8	49.4	4.7	56
		47.0	46.8	274.2	269.5	22	32	82.7	87.3	47.3	46.9		
		49.4	49.3	274.0	269.8	22	42	82.4	87.4	44.9	44.4		
709	4.5	55.1	54.8	275.1	271.6	22	35	83.6	86.5	60.1	59.7	5.0	1072
		57.5	57.2	275.0	271.8	22	45	83.5	86.7	57.6	57.2		
		60.0	59.7	274.8	271.9	22	55	83.3	86.8	55.1	54.7		
1511	4.7	49.6	49.0	279.6	275.4	22	50	79.7	83.3	54.7	54.0	4.3	85
		52.1	51.5	279.3	275.4	23	0	79.4	83.3	52.3	51.5		
		54.6	53.9	279.0	275.4	23	10	79.0	83.2	49.8	49.0		
740	3.9	47.0	46.4	278.7	274.0	23	1	79.4	83.3	52.0	51.3	4.3	85
		49.5	48.9	278.4	274.1	23	11	79.0	83.2	49.6	48.8		
		51.9	51.4	278.1	274.1	23	21	78.5	83.2	47.1	46.3		
756	3.4	45.9	46.3	268.8	264.0	23	14	89.7	93.7	51.1	51.3	4.0	91
		48.4	48.7	268.8	264.4	23	24	89.7	94.1	48.6	48.8		
		50.9	51.2	268.9	264.8	23	34	89.7	94.5	46.1	46.3		
746	4.0	53.4	53.5	271.2	267.5	23	25	86.1	89.2	58.4	58.2	5.0	1093
		55.9	55.9	271.2	267.8	23	35	86.0	89.4	55.9	55.7		
		58.4	58.4	271.1	268.0	23	45	85.9	89.6	53.4	53.2		
756	3.4	53.2	53.4	268.9	265.2	23	43	89.6	92.7	58.2	58.3	4.4	1101
		55.7	55.9	268.9	265.5	23	53	89.6	93.0	55.7	55.8		
		58.2	58.4	269.0	265.9	24	3	89.6	93.3	53.2	53.3		

CATNO	MAG	WEST STAR				AZ				LST		EAST STAR				MAG	CATNO
		Z.D.		LAT 10		LAT 5		LAT 10		HRS MIN		LAT 5		LAT 10			
1531	5.4	52.5	52.4	272.8	269.0	23	53	86.1	89.3	57.6	57.4	5.4	1108				
		55.0	54.9	272.9	269.4	0	3	86.2	89.7	55.1	55.0						
		57.5	57.3	273.1	269.9	0	13	86.3	90.1	52.6	52.5						
1533	5.1	54.4	55.2	262.7	259.3	0	4	94.8	97.7	59.4	60.0	5.3	1111				
		56.9	57.6	263.2	260.0	0	14	95.2	98.4	57.0	57.5						
		59.3	60.0	263.6	260.7	0	24	95.6	99.1	54.5	55.1						
890	4.1	48.1	48.1	272.5	268.0	0	28	86.3	90.1	53.3	53.1	3.9	151				
		50.6	50.5	272.6	268.5	0	38	86.4	90.5	50.8	50.6						
		53.1	53.0	272.7	268.9	0	48	86.5	91.0	48.3	48.2						
800	4.1	53.8	53.7	272.7	269.1	1	51	84.9	87.9	59.1	58.8	3.3	1134				
		56.3	56.2	272.9	269.5	1	1	85.0	88.3	56.6	56.3						
		58.8	58.7	273.0	270.0	1	11	85.1	88.7	54.2	53.9						
834	3.7	43.0	42.9	273.6	269.2	1	2	82.6	87.1	47.9	47.4	4.3	1118				
		45.5	45.4	273.6	268.7	1	12	82.5	87.5	45.4	45.0						
		48.0	47.8	273.7	269.2	1	22	82.4	87.8	42.9	42.5						
827	3.2	49.6	49.2	265.0	260.7	1	18	90.7	94.3	53.7	54.0	3.9	180				
		51.0	51.6	265.4	261.4	1	28	90.9	94.9	51.2	51.5						
		53.5	54.0	265.8	262.1	1	38	91.2	95.5	48.8	48.1						
1585	4.6	46.0	46.5	266.9	262.2	1	28	90.9	94.9	51.2	51.5	3.9	180				
		48.5	48.9	267.3	262.9	1	38	91.2	95.5	48.8	49.1						
		51.0	51.4	267.6	263.6	1	48	91.5	96.2	46.3	46.6						
827	3.2	53.5	54.0	265.9	262.1	1	38	93.5	96.5	58.4	58.8	2.5	206				
		56.0	56.5	266.1	262.8	1	48	93.8	97.1	55.9	56.4						
		58.5	58.9	266.4	263.4	1	58	94.1	97.8	53.4	54.0						
842	4.0	52.2	52.9	264.2	263.4	1	48	94.7	97.9	57.1	57.6	1.8	210				
		54.7	55.3	264.6	261.1	1	58	95.1	98.6	54.6	55.2						
		57.2	57.7	265.0	261.8	2	8	95.5	99.3	52.1	52.8						
884	4.9	38.4	39.1	265.5	259.3	1	59	91.8	97.0	43.5	43.9	3.9	180				
		40.9	41.5	266.0	260.3	2	9	92.1	97.8	41.0	41.5						
		43.4	43.9	266.4	261.1	2	19	92.4	98.6	38.6	39.0						
1603	4.7	45.8	45.3	278.1	273.2	2	10	81.8	86.0	50.7	50.1	4.5	206				
		48.3	47.8	278.0	271.5	2	20	81.8	86.2	48.2	47.7						
		50.7	50.2	277.9	273.8	2	30	81.6	86.5	45.8	45.2						
892	4.3	40.3	40.4	272.6	266.8	2	21	86.0	90.9	45.5	45.4	1.7	201				
		42.8	42.8	272.7	267.3	2	31	86.1	91.4	43.1	43.0						
		45.3	45.3	272.8	267.9	2	41	86.1	92.0	40.6	40.5						
902	4.0	39.3	39.1	274.6	268.4	2	36	81.5	86.7	44.3	43.8	4.5	208				
		41.7	41.6	274.5	268.9	2	46	81.4	87.0	41.8	41.3						
		44.2	44.0	274.6	269.4	2	56	81.1	87.3	39.3	38.8						
902	4.0	41.7	41.6	274.5	268.9	2	46	84.5	89.2	46.8	46.5	0.6	224				
		44.2	44.0	274.6	269.4	2	56	84.5	89.7	44.3	44.1						
		46.7	46.5	274.6	269.8	3	6	84.5	90.1	41.8	41.6						
902	4.0	46.5	46.3	274.6	269.8	3	5	84.6	89.6	51.4	51.1	4.5	1174				
		48.9	48.7	274.6	270.2	3	15	84.6	89.0	49.0	48.7						
		51.4	51.2	274.7	270.7	3	25	84.6	89.4	46.5	46.2						
892	4.3	55.5	55.4	273.3	269.8	3	22	83.2	86.1	60.6	60.2	3.1	285				
		58.0	57.8	273.4	270.3	3	32	83.3	86.4	58.2	57.7						
		60.5	60.3	273.5	270.7	3	42	83.3	86.7	55.7	55.3						
902	4.0	53.2	52.9	274.7	273.9	3	32	83.3	86.4	58.2	57.7	3.1	285				
		55.6	55.4	274.8	271.3	3	42	83.3	86.7	55.7	55.3						
		58.1	57.8	274.9	271.7	3	52	83.3	87.1	53.2	52.8						
36	4.5	45.3	45.0	276.0	271.0	4	4	83.3	87.5	50.3	49.9	3.1	285				
		47.8	47.5	276.0	271.4	4	14	83.3	87.8	47.8	47.4						
		50.3	49.9	276.0	271.8	4	24	83.2	88.2	45.3	44.9						
1034	5.3	45.0	45.2	270.0	265.0	4	17	87.3	91.5	50.1	50.0	0.5	291				
		47.4	47.6	270.2	265.6	4	27	87.4	92.0	47.6	47.6						
		49.9	50.1	270.4	266.2	4	37	87.5	92.5	45.1	45.1						
36	4.5	51.5	51.2	276.0	272.0	4	29	82.2	85.6	56.3	55.7	3.8	312				
		54.0	53.6	276.0	272.3	4	39	82.2	85.9	53.8	53.3						
		56.5	56.1	276.0	272.7	4	49	82.1	86.2	51.3	50.8						
1034	5.3	52.2	52.3	270.6	266.7	4	46	86.3	89.5	57.4	57.2	4.2	1223				
		54.7	54.8	270.8	267.2	4	56	86.4	90.0	54.9	54.7						
		57.2	57.2	271.0	267.7	5	6	86.6	90.4	52.4	52.3						
56	4.7	49.2	49.1	272.8	268.5	4	58	86.5	90.1	54.4	54.2	4.2	1223				
		51.7	51.6	272.9	269.0	5	8	86.6	90.5	51.9	51.8						
		54.2	54.1	273.0	269.4	5	18	86.7	91.0	49.4	49.3						
85	4.3	40.8	40.5	277.0	271.2	5	11	82.0	86.8	45.9	45.4	3.8	312				
		43.3	42.9	276.9	271.6	5	21	81.8	87.1	43.5	43.0						
		45.8	45.4	276.8	271.9	5	31	81.6	87.4	41.0	40.5						

CATNO	MAG	WEST STAR		AZ		LST HRS MIN	AZ		EAST STAR		MAG	CATNO
		Z. D. LAT 5 LAT 10	LAT 5 LAT 10	LAT 5 LAT 10	LAT 5 LAT 10		LAT 5 LAT 10	LAT 5 LAT 10	Z. D. LAT 5 LAT 10	LAT 5 LAT 10		
1177	5.0	42.6	42.6	272.7	267.3	5 26	86.7	91.3	47.4	47.3	4.2	1223
		45.1	45.1	272.8	267.8	5 36	86.8	91.8	44.9	44.9		
		47.6	47.5	272.9	268.3	5 46	86.9	92.4	42.5	42.4		
85	4.3	47.2	46.9	276.8	272.1	5 37	87.3	84.2	52.2	51.5	5.1	1238
		49.7	49.3	276.7	272.5	5 47	80.1	84.4	49.7	49.1		
		52.2	51.8	276.7	272.9	5 57	80.3	84.6	47.3	46.6		
157	2.3	41.3	41.5	270.4	264.7	5 47	86.4	91.2	46.6	46.5	3.3	374
		43.8	44.3	270.6	265.4	5 57	86.5	91.7	44.1	44.0		
		46.3	46.4	270.9	266.7	6 7	86.6	92.2	41.6	41.6		
1172	5.0	52.8	52.7	273.1	263.3	6 7	83.5	86.7	57.7	57.3	4.9	378
		55.3	55.2	273.2	265.8	6 17	83.6	87.0	55.2	55.0		
		57.8	57.6	273.4	270.2	6 27	83.6	87.4	52.8	52.4		
1093	5.0	44.8	45.1	269.6	264.6	6 18	88.0	92.3	49.7	49.7	4.8	1249
		47.3	47.5	269.9	265.3	6 28	88.2	92.8	47.2	47.2		
		49.8	51.3	270.1	265.9	6 38	88.3	93.4	44.7	44.9		
1183	4.7	53.8	53.3	277.3	273.6	6 35	82.0	85.1	58.8	58.3	3.0	566
		56.3	56.8	277.3	273.9	6 45	82.0	85.4	56.4	56.6		
		58.7	58.2	277.3	274.2	6 55	82.0	85.7	53.9	53.4		
1118	4.3	38.0	37.6	278.0	271.5	6 47	80.7	86.1	43.2	42.5	3.8	365
		40.5	41.1	277.8	271.9	6 57	80.5	86.3	40.7	41.1		
		43.0	42.5	277.6	272.2	7 7	80.2	86.6	38.2	37.7		
1102	5.0	55.7	55.1	270.5	267.3	6 59	88.6	91.5	60.0	60.0	5.1	1254
		57.5	57.6	270.7	267.6	7 9	88.8	92.0	57.5	57.5		
		60.0	60.1	270.9	268.0	7 19	89.0	92.5	55.0	55.0		
1103	5.0	67.5	67.5	270.7	267.6	7 9	85.7	88.3	62.5	62.2	4.1	427
		67.5	67.1	270.9	268.3	7 19	85.8	88.7	60.0	59.7		
		67.5	67.5	271.1	268.5	7 28	85.9	89.1	57.5	57.3		
1111	4.4	56.4	56.8	267.1	263.9	7 21	89.3	92.1	61.3	61.4	5.2	1257
		58.0	58.2	267.4	264.4	7 31	89.6	92.6	58.9	58.9		
		61.4	61.7	267.7	264.9	7 41	89.8	93.1	56.4	56.5		
151	3.9	52.3	51.8	273.6	269.7	7 31	85.9	89.2	57.0	56.8	4.1	427
		54.5	54.3	273.7	270.1	7 41	86.0	89.6	54.5	54.3		
		57.0	56.9	273.8	270.6	7 51	86.1	90.0	52.0	51.9		
151	3.0	55.0	54.8	273.9	270.2	7 43	85.2	88.1	60.1	59.8	4.2	1302
		57.4	57.3	273.9	270.7	7 53	85.3	88.5	57.7	57.4		
		59.9	59.7	274.0	271.1	8 3	85.4	88.9	55.2	54.9		
151	3.9	57.4	57.3	273.9	270.7	7 53	82.6	85.3	62.4	61.9	4.2	450
		59.0	59.7	274.0	271.1	8 3	82.7	85.6	59.9	59.4		
		62.4	62.2	274.1	271.5	8 13	82.7	85.9	57.5	57.0		
211	1.7	39.8	39.7	273.9	267.9	8 4	84.5	89.5	44.8	44.5	4.7	416
		42.3	42.2	273.9	268.4	8 14	84.4	89.9	42.3	42.1		
		44.8	44.6	274.0	268.9	8 24	84.4	90.4	39.8	39.6		
169	4.1	55.7	56.6	262.4	259.1	8 16	93.4	96.2	60.9	61.3	4.0	460
		58.2	58.7	262.9	259.9	8 26	93.7	96.8	58.4	58.5		
		60.7	60.4	263.3	260.5	8 36	94.1	97.4	55.9	56.4		
180	3.9	53.1	53.4	269.3	265.5	8 26	89.1	92.2	58.2	58.2	5.1	1317
		55.6	55.8	269.5	266.1	8 36	89.3	92.7	55.7	55.9		
		58.1	58.3	269.7	266.6	8 46	89.5	93.2	53.2	53.3		
170	3.9	56.5	56.3	273.4	270.1	8 37	83.9	86.6	61.5	61.1	5.2	1328
		58.0	58.8	273.5	270.5	8 47	83.9	86.9	59.1	58.7		
		61.4	61.2	273.6	270.9	8 57	84.0	87.3	56.6	56.2		
217	1.8	48.3	49.0	263.9	259.5	8 47	84.5	98.1	53.2	53.7	4.0	460
		50.8	51.4	264.3	261.3	8 57	84.8	98.8	50.7	51.3		
		53.3	53.9	264.7	261.1	9 7	85.2	99.6	48.2	48.9		
219	4.5	50.6	50.8	278.2	274.0	8 57	80.9	84.3	55.7	55.0	5.0	1326
		53.0	52.5	278.1	274.3	9 7	80.8	84.6	53.2	52.6		
		55.5	54.9	278.1	274.6	9 17	80.7	84.8	50.7	50.1		
218	4.5	53.3	52.5	278.1	274.3	9 7	80.1	83.2	58.2	57.5	3.0	488
		55.5	54.7	278.1	274.6	9 17	80.0	83.4	55.8	55.0		
		58.0	57.4	278.1	274.9	9 27	79.9	83.7	53.3	52.6		
1174	4.5	43.3	43.1	275.4	272.1	9 26	80.6	85.0	48.5	47.9	5.0	1326
		45.9	45.6	275.4	272.5	9 36	80.4	85.3	46.1	45.5		
		48.3	48.3	275.4	272.9	9 46	80.2	85.5	43.6	43.0		
244	4.5	49.0	48.9	271.8	267.4	9 39	86.7	90.3	54.2	54.0	5.0	1344
		51.4	51.4	271.9	267.9	9 49	86.8	90.8	51.7	51.6		
		53.9	53.8	272.1	268.4	9 59	86.9	91.3	49.2	49.1		
1175	5.0	50.4	51.1	264.3	260.2	9 53	94.1	97.5	55.4	55.9	3.4	501
		52.9	53.5	264.7	261.0	10 3	94.4	98.1	52.9	53.4		
		55.4	56.0	265.1	261.7	10 13	94.8	98.9	50.4	51.0		

CATNO	MAG	WEST STAR						EAST STAR						MAG	CATNO
		Z.D.		AZ		LST		Z.D.		AZ		LST			
		LAT	LAT 10	LAT	LAT 10	HRS	MIN	LAT	LAT 10	LAT	LAT 10	LAT	LAT 10		
285	3.1	39.3	39.0	277.0	270.9	10	4	79.3	84.4	44.2	43.5	3.0	488		
		41.8	41.5	276.9	271.3	10	14	79.0	84.6	41.8	41.1				
		44.3	43.9	276.8	271.7	10	24	78.6	84.7	39.3	38.6				
291	0.5	39.5	39.6	272.2	266.2	10	17	87.1	92.2	44.7	44.7	5.0	1344		
		42.0	42.0	272.3	266.8	10	27	87.2	92.7	42.2	42.2				
		44.5	44.5	272.4	267.4	10	37	87.3	93.3	39.7	38.8				
1295	5.1	40.1	40.7	266.9	261.0	10	31	89.6	94.6	45.4	45.6	4.9	1351		
		42.6	43.1	267.2	261.9	10	41	89.9	95.2	42.9	43.1				
		45.1	45.5	267.6	262.7	10	51	90.1	95.9	40.4	40.7				
1187	4.1	54.2	54.8	265.8	262.3	10	47	90.6	93.6	59.5	55.7	2.8	547		
		56.7	57.2	266.2	262.9	10	57	90.9	94.1	57.0	57.2				
		59.2	59.7	266.5	263.5	11	7	91.1	94.7	54.5	54.8				
1205	5.1	49.3	49.7	268.1	263.8	11	8	91.2	94.7	54.3	54.5	3.8	547		
		51.8	52.1	268.4	264.5	11	18	91.4	95.3	51.8	52.1				
		54.3	54.6	268.6	265.1	11	28	91.7	96.0	49.3	49.6				
1223	4.2	40.7	40.7	273.0	267.2	11	20	86.6	91.5	45.6	45.5	5.1	1375		
		43.2	43.1	273.1	267.9	11	30	86.7	92.0	43.1	43.0				
		45.6	45.6	273.2	268.3	11	40	86.7	92.6	40.6	40.6				
1205	5.1	57.3	57.5	269.0	265.8	11	40	87.5	90.1	62.2	62.1	3.8	588		
		59.8	60.0	269.2	266.3	11	50	87.7	90.6	59.7	59.7				
		62.3	62.4	269.4	266.8	12	0	87.8	91.0	57.2	57.2				
1223	4.2	50.6	50.5	273.4	269.3	12	0	85.6	89.0	55.5	55.7	2.8	582		
		53.1	53.0	273.5	269.7	12	10	85.5	89.4	53.1	53.0				
		55.6	55.4	273.6	270.1	12	20	85.7	89.8	50.6	50.4				
1249	4.8	39.5	39.6	271.4	265.3	12	16	87.9	93.0	44.4	44.4	5.4	562		
		42.0	42.1	271.5	265.0	12	26	89.1	93.6	41.9	42.0				
		44.5	44.6	271.7	266.6	12	36	89.2	94.3	39.4	39.6				
1249	4.8	43.0	43.1	271.6	266.2	12	30	85.8	90.3	48.1	47.9	2.8	582		
		45.5	45.5	271.7	266.8	12	40	85.8	90.7	45.6	45.4				
		48.0	48.0	271.9	267.4	12	50	85.8	91.2	43.1	43.0				
1251	4.1	47.9	48.6	264.5	259.6	12	49	92.4	96.1	53.1	53.4	4.8	1427		
		50.4	51.0	264.5	261.4	12	59	92.7	96.8	50.6	51.0				
		52.8	53.4	264.9	261.1	13	9	93.1	97.5	48.1	48.6				
365	3.8	51.5	50.9	278.8	274.8	13	7	81.1	84.4	56.2	55.6	4.3	1442		
		53.9	53.3	278.7	275.1	13	17	81.0	84.7	53.7	53.1				
		56.4	55.8	278.7	275.3	13	27	80.9	85.0	51.3	50.7				
378	4.9	49.0	48.6	276.4	272.1	13	16	81.0	84.7	54.0	53.4	4.3	1442		
		51.4	51.0	276.4	272.4	13	26	80.9	84.9	51.5	50.9				
		53.9	53.5	276.4	272.8	13	36	80.8	85.2	49.1	48.5				
378	4.9	49.5	49.1	276.4	272.1	13	18	82.0	85.6	54.4	53.8	4.5	633		
		51.9	51.5	276.4	272.5	13	28	82.0	85.9	51.9	51.4				
		54.4	54.0	276.4	272.8	13	38	81.9	86.2	49.4	48.9				
396	3.9	44.9	44.4	278.3	273.3	13	32	80.9	85.1	50.0	49.4	4.3	1442		
		47.4	46.8	278.2	273.6	13	42	80.7	85.3	47.6	47.0				
		49.8	49.3	278.1	273.9	13	52	80.6	85.6	45.1	44.5				
418	4.7	40.8	40.6	275.6	269.8	13	48	80.7	85.5	46.1	45.5	4.3	1442		
		43.3	43.0	275.6	270.2	13	58	80.5	85.7	43.7	43.1				
		45.8	45.5	275.5	270.6	14	8	80.2	86.0	41.2	40.6				
418	4.7	41.3	41.1	275.6	269.9	13	50	81.8	86.5	46.5	46.0	4.5	633		
		43.8	43.5	275.5	270.3	14	0	81.6	86.8	44.0	43.5				
		46.3	46.0	275.5	270.7	14	10	81.5	87.1	41.6	41.1				
1284	5.1	45.5	45.7	270.3	265.4	14	2	88.7	92.8	50.7	50.8	4.4	1455		
		48.0	48.1	270.5	266.0	14	12	88.9	93.4	48.2	48.3				
		50.5	50.6	270.7	266.6	14	22	89.1	93.9	45.7	45.9				
1297	5.2	42.2	42.5	268.9	263.4	14	16	89.3	93.6	47.2	47.3	4.4	1459		
		44.7	45.0	269.2	264.1	14	26	89.1	94.2	44.7	44.9				
		47.2	47.4	269.4	264.8	14	36	89.3	94.8	42.2	42.4				
445	3.9	39.4	39.9	266.9	260.9	14	27	89.2	94.2	44.5	44.6	4.4	1455		
		41.9	42.4	267.2	261.7	14	37	89.3	94.9	42.0	42.2				
		44.4	44.8	267.6	262.5	14	47	89.5	95.6	39.5	39.7				
445	3.8	42.1	42.6	267.3	261.8	14	38	90.9	95.5	47.2	47.4	3.7	668		
		44.6	45.0	267.6	262.6	14	48	91.2	96.2	44.7	45.0				
		47.1	47.5	267.9	263.3	14	58	91.5	96.9	42.2	42.5				
1317	5.1	37.8	38.2	269.1	262.8	14	51	88.7	94.1	42.7	42.8	2.9	665		
		40.3	40.6	269.4	263.6	15	1	88.8	94.7	40.2	40.4				
		42.8	43.1	269.6	264.3	15	11	89.0	95.4	37.7	37.9				
1297	5.2	53.4	53.6	270.0	266.3	15	1	88.2	91.3	58.4	58.3	4.5	709		
		55.9	56.0	270.2	266.8	15	11	88.3	91.7	55.9	55.9				
		58.4	58.5	270.4	267.3	15	21	88.5	92.2	53.4	53.4				

CATNO	MAG	WEST STAR				AZ				LST				AZ				EAST STAR				MAG	CATNO
		Z. D.		LAT		5		LAT		5		LAT		5		LAT		5		LAT			
665	2.9	50.4	50.5	271.8	267.7	21	5	84.4	87.8	55.4	55.0	4.6	28										
		52.9	52.9	272.0	268.2	21	15	84.4	88.2	52.9	52.6												
		55.4	55.4	272.1	268.7	21	25	84.4	88.6	50.4	50.1												
668	3.7	53.7	53.9	269.7	266.0	21	22	88.9	92.0	58.5	56.6	5.3	1034										
		56.2	56.3	269.9	266.6	21	32	89.1	92.5	56.0	56.1												
		58.7	58.8	270.1	267.1	21	42	89.3	93.0	53.6	53.7												
668	3.7	56.4	56.6	269.9	266.6	21	33	86.6	89.3	61.6	61.4	4.7	56										
		58.9	59.0	270.2	267.2	21	43	86.7	89.7	59.1	58.9												
		61.4	61.5	270.4	267.6	21	53	86.8	90.1	56.6	56.5												
677	4.0	56.5	56.6	270.2	266.9	21	46	89.2	91.9	61.5	61.5	4.8	65										
		59.0	59.1	270.4	267.4	21	56	89.4	92.4	59.0	59.1												
		61.5	61.5	270.6	267.9	22	6	89.6	92.9	56.5	56.6												
709	4.5	48.0	48.1	271.1	266.6	22	8	87.0	90.8	52.9	52.8	4.7	56										
		50.5	50.6	271.3	267.2	22	18	87.1	91.3	50.4	50.3												
		53.0	53.1	271.5	267.7	22	28	87.3	91.8	47.9	47.8												
730	3.4	44.3	44.6	269.3	264.2	22	22	87.2	91.5	49.4	49.3	4.7	56										
		46.8	47.0	269.5	264.8	22	32	87.3	92.0	46.9	46.9												
		49.3	49.5	269.8	265.5	22	42	87.4	92.5	44.4	44.4												
749	3.9	41.0	40.9	273.9	268.2	22	39	82.2	87.1	46.1	45.7	4.5	60										
		43.5	43.3	274.0	268.7	22	49	82.1	87.4	43.7	43.2												
		45.9	45.8	274.0	269.2	22	59	82.0	87.7	41.2	40.7												
1511	4.7	49.0	49.7	275.4	271.0	22	50	83.3	86.9	54.0	53.5	4.3	85										
		51.5	51.2	275.4	271.4	23	0	83.3	87.3	51.5	51.1												
		53.9	53.6	275.4	271.8	23	10	83.2	87.6	49.0	48.6												
749	3.9	46.2	46.1	274.0	269.2	23	0	83.3	87.3	51.5	51.1	4.3	85										
		48.7	48.5	274.1	269.7	23	10	83.2	87.6	49.0	48.6												
		51.2	51.0	274.1	270.1	23	20	83.2	88.0	46.6	46.2												
756	3.4	46.3	47.0	264.0	259.3	23	14	93.7	97.7	51.3	51.8	4.0	91										
		48.7	49.4	264.4	260.1	23	24	94.1	98.4	48.8	48.3												
		51.2	51.8	264.8	260.9	23	34	94.5	99.2	46.3	46.9												
746	4.0	53.2	53.6	267.4	263.7	23	24	89.2	92.3	58.4	56.5	5.0	1093										
		55.7	56.0	267.7	264.4	23	34	89.4	92.8	55.9	56.0												
		58.2	58.5	268.0	264.9	23	44	89.6	93.3	53.5	53.6												
756	3.4	53.4	54.0	265.2	261.5	23	43	92.7	95.8	58.3	56.7	4.4	1101										
		55.9	56.5	265.5	262.2	23	53	93.0	96.4	55.8	56.2												
		58.4	58.9	265.9	262.8	24	3	93.3	97.0	53.3	53.8												

CATNO	MAG	WEST STAR		AZ		LST		A2		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 10	LAT 15	HRS	MIN	LAT 10	LAT 15	Z. D.	Z. D.		
768	4.0	48.8	48.4	276.2	271.8	23	51	81.3	85.0	53.6	53.0	4.3	125
		51.2	50.9	276.4	272.4	0	1	81.5	85.5	51.2	50.6		
		53.7	53.3	276.7	273.0	0	11	81.6	86.0	48.7	48.2		
768	4.0	52.5	52.1	276.5	272.7	0	6	81.6	84.8	57.2	56.6	4.0	150
		54.9	54.5	276.8	273.2	0	16	81.8	85.3	54.8	54.2		
		57.4	56.9	277.0	273.8	0	26	81.9	85.8	52.3	51.8		
800	4.1	48.1	48.4	268.0	263.5	0	28	90.1	93.8	53.1	53.3	3.9	151
		50.5	50.8	268.5	264.4	0	38	90.5	94.6	50.6	50.9		
		53.0	53.3	268.9	265.2	0	48	91.0	95.4	48.2	48.5		
815	2.5	43.8	43.7	273.7	268.5	0	41	82.2	86.6	48.7	48.2	4.0	150
		46.2	46.1	274.0	269.2	0	51	82.3	87.1	46.2	45.8		
		48.7	48.5	274.3	269.9	1	1	82.4	87.6	43.8	43.4		
830	4.1	53.7	54.0	269.1	265.4	0	51	87.9	90.9	58.8	58.7	3.3	1134
		55.2	55.4	269.5	266.2	1	1	88.3	91.6	56.3	56.3		
		58.7	58.8	270.0	266.9	1	11	88.7	92.3	53.9	53.5		
834	3.7	42.7	43.1	268.2	262.8	1	1	87.1	91.7	47.7	47.6	4.3	1118
		45.1	45.5	268.7	263.7	1	11	87.4	92.4	45.2	45.2		
		47.6	47.9	269.1	264.6	1	21	87.8	93.2	42.8	42.8		
834	3.7	47.1	47.4	269.1	264.4	1	19	89.0	92.9	51.9	52.0	3.3	1134
		49.6	49.8	269.5	265.3	1	29	89.4	93.7	49.4	49.6		
		52.0	52.2	270.0	266.1	1	39	89.8	94.5	47.0	47.2		
834	3.7	51.5	51.7	269.0	265.9	1	37	89.0	92.4	56.2	56.3	1.7	201
		54.0	54.1	270.3	266.7	1	47	89.4	93.1	53.8	53.9		
		56.5	56.5	270.7	267.4	1	57	89.9	93.9	51.3	51.5		
834	3.7	55.0	55.1	270.5	267.0	1	51	87.2	90.1	60.1	59.9	0.6	224
		57.4	57.5	270.9	267.7	2	1	87.5	90.7	57.6	57.5		
		59.9	59.9	271.3	268.4	2	11	87.9	91.4	55.1	55.1		
1602	4.6	44.9	45.5	265.2	260.3	2	2	90.1	94.3	50.1	50.3	1.7	201
		47.3	47.3	265.8	261.3	2	12	90.5	95.1	47.6	47.9		
		49.8	50.3	266.4	262.2	2	22	91.0	95.9	45.2	45.5		
1614	4.5	41.7	42.1	268.2	262.7	2	15	90.7	95.3	46.9	47.2	1.7	261
		44.2	44.5	268.7	263.6	2	25	91.1	96.2	44.4	44.8		
		46.7	46.9	269.2	264.5	2	35	91.6	97.1	42.0	42.4		
855	3.6	56.9	56.4	276.3	273.1	2	32	80.6	83.3	61.7	61.0	3.4	256
		59.3	58.0	276.6	273.6	2	42	80.8	83.8	59.3	58.6		
		61.7	61.3	276.9	274.2	2	52	81.0	84.3	56.8	56.2		
932	4.0	41.6	41.9	268.9	263.3	2	46	89.2	94.0	46.5	46.7	0.6	224
		44.0	44.3	269.4	264.3	2	56	89.7	94.8	44.1	44.3		
		46.5	46.7	269.8	265.1	3	6	90.1	95.7	41.6	41.8		
855	4.7	50.9	50.4	278.2	274.2	2	56	81.1	84.5	55.9	55.2	3.4	256
		53.4	52.8	278.4	274.7	3	6	81.3	85.0	53.4	52.8		
		55.8	55.2	278.6	275.2	3	16	81.4	85.5	51.0	50.4		
1625	5.4	48.0	47.7	275.6	271.1	3	7	81.3	85.0	53.2	52.6	3.4	256
		50.5	50.1	275.9	271.7	3	17	81.4	85.5	50.8	50.2		
		52.9	52.5	276.1	272.3	3	27	81.5	86.0	48.3	47.8		
892	4.3	55.1	55.3	269.8	266.3	3	21	86.0	88.9	60.4	60.2	3.1	285
		57.6	57.7	270.2	267.0	3	31	86.4	89.5	58.0	57.8		
		60.1	60.1	270.6	267.8	3	41	86.7	90.2	55.5	55.4		
932	4.0	52.9	53.0	270.0	267.2	3	32	86.4	89.6	57.7	57.5	3.1	285
		55.4	55.4	271.3	267.9	3	42	86.7	90.2	55.3	55.1		
		57.8	57.8	271.7	268.6	3	52	87.1	90.9	52.8	52.7		
36	4.5	45.0	45.1	271.0	266.0	4	4	87.5	91.7	49.9	49.8	3.1	285
		47.5	47.5	271.4	266.8	4	14	87.8	92.4	47.4	47.4		
		49.9	49.9	271.8	267.6	4	24	88.2	93.2	44.9	45.0		
1034	5.3	45.2	45.8	265.0	260.1	4	17	91.5	95.6	50.0	51.4	0.5	251
		47.6	48.2	265.5	261.1	4	27	92.0	96.5	47.6	48.0		
		50.1	50.6	266.2	262.1	4	37	92.5	97.4	45.1	45.6		
36	4.5	50.9	50.9	271.9	267.9	4	28	85.5	88.9	56.0	55.7	3.8	312
		53.4	53.3	272.3	269.6	4	38	85.8	89.5	53.5	53.3		
		55.8	55.7	272.7	269.3	4	48	86.1	90.2	51.1	50.9		
1034	5.3	52.3	52.7	266.7	262.9	4	46	89.5	92.8	57.2	57.3	4.2	1223
		54.8	55.1	267.2	263.7	4	56	90.0	93.5	54.7	54.9		
		57.2	57.5	267.7	264.5	5	6	90.4	94.3	52.3	52.5		
56	4.7	49.1	49.5	268.5	264.2	4	58	90.1	93.7	54.2	54.4	4.2	1223
		51.6	51.9	269.0	265.0	5	8	90.5	94.4	51.8	52.0		
		54.1	54.3	269.4	265.8	5	18	91.0	95.2	49.3	49.6		
85	4.3	40.5	40.6	271.2	265.4	5	11	86.8	91.8	45.4	45.4	3.8	312
		42.9	43.0	271.6	266.2	5	21	87.1	92.5	43.0	43.0		
		45.4	45.4	271.9	267.0	5	31	87.4	93.3	40.5	40.5		

CATALOG	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATALOG
		Z.D.	Z.D.	LAT 10	LAT 15	LAT 10	LAT 15	HRS MIN	LAT 10	LAT 15	LAT 10	LAT 15	
1193	4.9	41.6	41.2	276.9	271.3	10	18	80.3	85.1	46.4	45.8	5.2	1349
		44.0	43.6	277.0	271.8	10	28	80.3	85.5	44.0	43.4		
		46.4	46.0	277.2	272.4	10	38	80.3	86.0	41.6	41.0		
1197	4.1	54.8	55.6	262.3	259.9	10	47	93.6	96.5	59.7	60.1	3.8	547
		57.2	58.0	262.9	259.8	10	57	94.1	97.3	57.2	57.7		
		59.7	60.3	263.5	260.7	11	7	94.7	98.2	54.8	55.3		
1205	5.1	49.7	50.4	263.8	255.7	11	8	94.7	98.2	54.5	55.1	3.8	547
		52.1	52.8	264.5	260.7	11	18	95.3	99.2	52.1	52.7		
		54.6	55.2	265.1	261.6	11	28	96.0	100.1	49.6	50.3		
1223	4.2	47.7	41.2	267.2	261.5	11	20	91.5	96.4	45.5	45.9	5.1	1375
		43.1	43.5	267.8	262.5	11	30	92.0	97.3	43.0	43.5		
		45.6	45.9	268.3	263.4	11	40	92.6	98.4	40.6	41.1		
1224	4.5	46.9	47.5	265.3	260.7	11	45	91.4	95.1	52.0	52.3	5.4	562
		49.4	49.9	265.9	261.7	11	55	91.9	96.2	49.6	49.9		
		51.8	52.3	266.5	262.6	12	5	92.4	97.0	47.1	47.5		
1223	4.2	50.5	57.7	269.3	265.2	12	0	89.0	92.5	55.3	55.4	2.8	562
		53.0	53.2	269.7	265.9	12	10	89.4	93.2	52.8	52.9		
		55.4	55.6	270.1	266.7	12	20	89.8	94.0	50.4	50.5		
1249	4.8	39.6	47.3	265.3	259.4	12	16	93.0	98.1	44.4	44.9	5.4	562
		42.1	42.7	266.0	260.5	12	26	93.5	99.1	42.0	42.5		
		44.6	45.1	266.6	261.6	12	36	94.3	100.2	39.5	40.1		
1249	4.8	47.1	43.6	266.2	261.3	12	30	90.3	94.8	47.9	48.1	2.8	562
		45.5	46.0	266.9	262.0	12	40	90.7	95.6	45.4	45.7		
		48.0	48.4	267.4	262.9	12	50	91.2	96.5	43.0	43.3		
337	4.3	57.3	56.7	277.9	274.6	12	51	80.8	83.4	62.0	61.3	4.9	635
		59.7	59.1	278.1	275.1	13	1	81.0	83.9	59.6	58.9		
		62.1	61.5	278.3	275.6	13	11	81.2	84.4	57.2	56.5		
365	3.8	50.9	50.6	274.9	270.7	13	7	84.4	87.9	55.6	55.2	4.3	1442
		53.3	53.1	275.1	271.3	13	17	84.7	88.5	53.1	52.8		
		55.8	55.5	275.3	271.9	13	27	85.0	89.1	50.7	50.4		
373	4.9	49.1	49.1	272.1	267.8	13	18	85.6	89.3	53.8	53.6	4.5	633
		51.5	51.5	272.5	268.5	13	28	85.9	89.9	51.4	51.2		
		54.0	53.9	272.9	269.2	13	38	86.2	90.6	48.9	48.8		
396	3.7	44.4	44.3	273.3	268.2	13	32	85.1	89.4	49.4	49.2	4.3	1442
		46.8	46.7	273.6	268.9	13	42	85.3	90.0	47.0	46.8		
		49.3	49.2	273.9	269.5	13	52	85.6	90.7	44.5	44.4		
413	4.7	47.6	47.9	269.8	264.3	13	48	85.5	90.4	45.5	45.3	4.3	1442
		47.3	47.3	270.2	264.9	13	58	85.7	91.1	43.1	42.9		
		45.5	45.7	270.6	265.7	14	8	86.0	91.8	40.6	40.5		
419	5.3	47.4	47.1	275.3	270.7	14	1	81.8	85.7	52.2	51.7	2.1	666
		49.8	49.5	275.6	271.3	14	11	81.9	86.2	49.8	49.2		
		52.3	51.9	275.8	271.9	14	21	82.1	86.7	47.3	46.8		
1284	5.1	47.9	48.4	266.0	261.5	14	11	91.9	95.7	52.7	53.0	2.9	665
		50.3	50.8	266.5	262.4	14	21	92.4	96.5	50.2	50.6		
		52.8	53.2	267.1	263.3	14	31	92.9	97.4	47.8	48.2		
413	4.7	49.4	49.5	271.3	267.0	14	24	85.3	88.9	54.7	54.5	3.7	666
		51.9	51.9	271.7	267.7	14	34	85.6	89.5	52.3	52.1		
		54.4	54.3	272.0	268.4	14	44	85.9	90.1	49.8	49.6		
418	4.7	53.1	53.1	271.8	268.1	14	39	85.4	88.5	59.2	58.0	5.4	1484
		55.6	55.6	272.2	268.8	14	49	85.7	89.1	55.8	55.6		
		58.1	58.0	272.6	269.5	14	59	86.0	89.8	53.3	53.1		
450	4.2	42.1	42.2	272.2	266.6	14	55	86.2	90.9	47.1	47.0	3.7	666
		44.6	44.6	272.5	267.4	15	5	86.5	91.5	44.7	44.6		
		47.0	47.0	272.8	268.2	15	15	86.8	92.3	42.2	42.2		
445	3.3	50.7	51.3	264.2	260.2	15	11	91.7	95.1	55.9	56.2	4.5	709
		53.1	53.7	264.8	261.1	15	21	92.2	95.9	53.4	53.8		
		55.6	56.1	265.4	262.0	15	31	92.7	96.8	50.9	51.4		
445	3.3	54.6	55.2	265.1	261.7	15	27	92.4	95.3	59.3	59.7	3.4	730
		57.0	57.5	265.7	262.5	15	37	92.9	96.1	56.9	57.2		
		59.5	59.9	266.3	263.3	15	47	93.4	96.9	54.4	54.8		
1302	4.2	57.5	57.5	271.5	268.3	15	37	85.2	87.9	62.3	62.0	0.9	745
		59.9	59.9	271.9	269.0	15	47	85.6	88.5	59.8	59.6		
		62.4	62.3	272.3	269.7	15	57	85.9	89.1	57.4	57.1		
1326	5.0	46.3	46.0	274.8	270.0	15	49	83.2	87.2	51.0	50.6	5.1	725
		48.7	48.5	275.0	270.6	15	59	83.4	87.8	48.6	48.2		
		51.2	50.9	275.3	271.2	16	9	83.5	88.4	46.1	45.8		
1326	5.0	49.7	49.4	275.1	270.9	16	3	84.1	87.7	54.6	54.3	2.8	741
		52.1	51.8	275.4	271.5	16	13	84.3	88.2	52.2	51.8		
		54.6	54.2	275.6	272.1	16	23	84.6	88.8	49.7	49.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 10	LAT 15	HRS	MIN	LAT 10	LAT 15	Z.D.	Z.D.		
484	3.7	49.6	50.2	266.1	261.9	16	13	89.2	92.8	54.8	54.9	3.9	749
		52.1	52.6	266.6	262.8	16	23	89.7	93.5	52.4	52.5		
		54.3	54.9	267.2	263.6	16	33	90.1	94.3	49.9	50.1		
1344	5.0	46.8	47.2	268.3	263.6	16	25	89.7	93.7	51.9	52.0	3.9	749
		49.3	49.6	268.8	264.5	16	35	90.2	94.4	49.4	49.6		
		51.8	52.0	269.2	265.3	16	45	90.6	95.3	47.0	47.2		
488	3.0	53.0	52.6	276.4	272.6	16	37	83.0	86.1	57.7	57.2	4.0	768
		55.4	55.0	276.6	273.2	16	47	83.2	86.7	55.3	54.8		
		57.9	57.4	276.9	273.7	16	57	83.4	87.2	52.8	52.4		
1351	4.9	48.5	49.0	266.1	261.8	16	47	90.8	94.5	53.5	53.7	5.4	1531
		50.9	51.4	266.7	262.7	16	57	91.3	95.3	51.0	51.3		
		53.4	53.8	267.2	263.6	17	7	91.8	96.2	48.6	48.9		
1375	5.1	38.8	39.3	267.0	260.8	16	59	91.3	96.5	43.5	43.8	3.9	749
		41.2	41.7	267.6	261.9	17	9	91.8	97.5	41.0	41.5		
		43.7	44.1	268.1	262.9	17	19	92.3	98.5	38.6	39.1		
1351	4.9	54.9	55.2	267.6	264.1	17	13	89.8	92.7	60.0	60.2	4.1	800
		57.3	57.6	268.1	264.9	17	23	90.2	93.4	57.6	57.7		
		59.8	60.0	268.5	265.6	17	33	90.7	94.1	55.1	55.3		
516	4.3	55.9	56.4	265.2	261.8	17	43	92.6	95.4	60.8	61.2	5.5	1574
		58.3	58.8	265.7	262.7	17	53	93.1	96.2	58.3	58.8		
		60.8	61.2	266.3	263.5	18	3	93.7	97.0	55.9	56.4		
1375	5.1	55.3	55.4	270.3	266.8	18	6	88.7	91.5	60.2	60.3	3.7	834
		57.7	57.8	270.7	267.5	18	16	89.1	92.2	57.8	57.8		
		60.2	60.2	271.1	268.2	18	26	89.5	92.9	55.3	55.4		
589	3.8	38.1	38.9	264.6	258.3	18	22	93.1	96.4	43.1	43.6	4.1	800
		40.6	41.2	265.3	259.5	18	32	93.7	99.5	40.6	41.2		
		43.0	43.6	265.9	260.6	18	42	94.4	100.6	38.2	38.8		
568	3.8	44.7	45.3	266.3	261.4	18	49	90.5	94.7	49.7	49.9	3.7	834
		47.2	47.7	266.9	262.3	18	59	90.9	95.5	47.2	47.5		
		49.7	50.1	267.5	263.2	19	9	91.4	96.4	44.7	45.1		
582	2.8	52.2	52.3	270.5	266.6	19	14	85.3	88.6	57.1	56.8	4.7	1603
		54.7	54.7	270.9	267.4	19	24	85.6	89.2	54.7	54.4		
		57.1	57.2	271.3	268.1	19	34	85.9	89.8	52.2	52.0		
1442	4.3	37.6	37.6	273.8	267.3	19	26	82.9	88.4	42.8	42.5	4.9	843
		40.1	40.0	274.0	268.0	19	36	83.0	88.9	40.4	40.0		
		42.5	42.4	274.2	268.8	19	46	83.1	89.5	37.9	37.6		
1427	4.8	49.7	50.5	262.9	258.7	19	38	93.2	96.8	54.5	55.0	3.9	878
		52.2	52.9	263.5	259.7	19	48	93.8	97.6	52.1	52.6		
		54.6	55.3	264.2	260.7	19	58	94.4	98.6	49.6	50.2		
1442	4.3	46.0	45.8	274.6	269.7	20	0	81.8	85.8	51.0	50.5	4.7	885
		48.4	48.2	274.8	270.4	20	10	81.9	86.3	48.6	48.1		
		50.9	50.6	275.1	271.0	20	20	82.0	86.8	46.1	45.7		
1442	4.3	48.9	48.7	274.9	270.5	20	12	83.8	87.5	53.9	53.5	5.4	1625
		51.4	51.1	275.1	271.1	20	22	84.1	88.1	51.5	51.1		
		53.8	53.5	275.4	271.7	20	32	84.3	88.6	49.0	48.7		
633	4.5	48.6	48.4	273.8	269.3	20	14	83.9	87.6	53.4	53.1	5.4	1625
		51.0	50.9	274.1	270.0	20	24	84.1	88.2	51.0	50.7		
		53.5	53.3	274.4	270.6	20	34	84.3	88.8	48.5	48.2		
1459	4.4	44.1	44.7	265.6	260.6	20	22	91.4	95.7	48.9	49.3	4.3	892
		46.6	47.1	266.2	261.6	20	32	91.9	96.6	46.5	46.9		
		49.0	49.5	266.8	262.5	20	42	92.4	97.5	44.0	44.5		
665	2.9	44.1	44.6	266.2	261.1	20	39	89.7	93.9	49.4	49.5	4.0	902
		46.5	47.0	266.8	262.1	20	49	90.1	94.7	46.9	47.1		
		49.0	49.4	267.4	263.1	20	59	90.5	95.6	44.4	44.7		
687	3.7	40.0	40.0	273.0	267.0	20	49	84.6	89.7	44.9	44.6	5.4	1625
		42.5	42.4	273.3	267.8	20	59	84.8	90.3	42.4	42.2		
		45.9	44.9	273.6	268.5	21	9	85.0	91.0	40.0	39.8		
665	2.9	50.2	50.6	267.6	263.5	21	4	87.8	91.3	55.3	55.2	4.6	28
		52.7	53.0	268.1	264.3	21	14	88.2	92.0	52.8	52.8		
		55.1	55.4	268.6	265.2	21	24	88.5	92.7	50.3	50.4		
668	3.7	53.6	54.1	266.0	262.3	21	21	92.0	95.0	58.8	59.1	5.3	1034
		56.1	56.5	266.5	263.2	21	31	92.4	95.7	56.4	56.7		
		58.5	58.9	267.0	264.0	21	41	93.0	96.6	53.9	54.3		
665	2.9	56.9	57.1	268.9	265.7	21	31	89.2	91.9	61.9	61.9	4.7	56
		59.3	59.5	269.4	266.4	21	41	89.6	92.6	59.4	59.5		
		61.8	61.9	269.8	267.2	21	51	90.1	93.3	57.0	57.1		
677	4.0	56.6	57.0	266.9	263.6	21	46	91.9	94.6	61.5	61.8	4.8	65
		59.1	59.4	267.4	264.4	21	56	92.4	95.4	59.1	59.4		
		61.5	61.8	267.9	265.2	22	6	92.9	96.2	56.6	57.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.		LAT 10 LAT 15		HRS MIN		LAT 10 LAT 15		Z. D.			
709	4.5	47.9	48.4	266.6	262.1	22	7	90.8	94.5	53.0	53.2	4.7	56
		50.3	50.8	267.1	263.0	22	17	91.2	95.3	50.6	50.8		
		52.8	53.2	267.7	263.9	22	27	91.7	96.2	48.1	48.4		
739	3.4	44.3	45.1	264.1	259.1	22	21	91.4	95.7	49.6	49.9	4.7	56
		46.8	47.4	264.8	260.2	22	31	91.9	96.5	47.1	47.5		
		49.2	49.8	265.4	261.2	22	41	92.5	97.5	44.6	45.1		
749	3.9	40.6	41.1	268.1	262.3	22	38	87.0	91.9	45.9	45.9	4.5	60
		43.1	43.5	268.6	263.3	22	48	87.3	92.6	43.5	43.5		
		45.6	45.9	269.1	264.2	22	58	87.7	93.4	41.0	41.0		
1511	4.7	48.7	48.8	271.0	266.6	22	50	86.9	90.6	53.5	53.4	4.3	85
		51.2	51.2	271.4	267.4	23	0	87.3	91.3	51.1	51.0		
		53.6	53.6	271.8	268.1	23	10	87.6	92.0	48.6	48.6		
749	3.9	46.1	46.3	269.2	264.4	23	0	87.3	91.3	51.1	51.0	4.3	85
		48.5	48.7	269.7	265.3	23	10	87.6	92.0	48.6	48.6		
		51.9	51.1	270.1	266.1	23	20	88.0	92.8	46.2	46.2		
739	3.4	56.6	57.0	267.1	263.8	23	11	91.6	94.3	61.7	62.0	5.0	1093
		59.1	59.4	267.6	264.6	23	21	92.1	95.1	59.2	59.5		
		61.5	61.8	268.1	265.4	23	31	92.6	95.9	56.8	57.1		
746	4.7	53.6	54.3	263.7	260.1	23	24	92.3	95.3	58.5	58.8	5.0	1093
		56.0	56.7	264.4	261.0	23	34	92.8	96.1	56.0	56.4		
		58.5	59.1	264.9	261.9	23	44	93.3	96.9	53.6	54.0		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 15	LAT 20	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20	LAT 15	LAT 20		
768	4.0	48.2	48.2	271.8	267.3	23	50	85.0	86.7	53.2	53.0	4.3	125
		50.6	50.6	272.3	268.2	0	0	85.5	89.6	50.8	50.6		
		53.0	52.9	272.9	269.1	0	10	86.0	90.4	48.4	48.3		
768	4.0	51.8	51.8	272.6	268.7	0	5	84.8	88.0	56.9	56.6	4.0	150
		54.2	54.1	273.2	269.6	0	15	85.3	88.9	54.5	54.2		
		56.6	56.5	273.7	270.4	0	25	85.8	89.7	52.1	51.9		
778	4.5	52.4	51.9	277.6	273.7	0	20	80.9	84.1	57.4	56.7	3.9	159
		54.8	54.2	278.0	274.4	0	30	81.3	84.8	55.0	54.4		
		57.2	56.6	278.4	275.2	0	40	81.7	85.5	52.6	52.0		
778	4.5	54.3	53.8	277.9	274.3	0	28	79.5	82.5	59.2	58.4	1.1	168
		56.7	56.1	278.3	275.0	0	38	79.9	83.2	56.8	56.0		
		59.1	58.4	278.7	275.7	0	48	80.3	83.9	54.4	53.7		
1541	4.5	53.9	53.2	279.1	275.5	0	30	79.6	82.7	58.7	57.9	1.1	166
		56.2	55.6	279.5	276.2	0	40	80.0	83.3	56.3	55.6		
		58.6	57.9	279.9	276.8	0	50	80.3	84.0	53.9	53.2		
815	2.5	43.4	43.8	268.4	263.2	0	40	86.5	91.0	48.4	48.3	4.0	150
		45.8	46.1	269.1	264.3	1	50	87.1	91.9	46.0	46.0		
		48.2	48.5	269.8	265.4	1	0	87.6	92.8	43.6	43.6		
800	4.1	54.0	54.5	265.4	261.9	0	51	90.9	94.0	58.7	58.0	3.3	1134
		56.4	56.9	266.2	262.9	1	1	91.6	94.9	56.3	56.6		
		58.8	59.2	266.9	263.9	1	11	92.3	95.9	53.9	54.3		
800	4.1	54.2	54.8	265.5	262.0	0	52	92.5	95.4	59.2	59.5	3.8	179
		56.6	57.1	266.3	263.0	1	2	93.2	96.4	56.8	57.2		
		59.0	59.4	267.0	264.0	1	12	93.9	97.5	54.3	54.8		
1574	5.5	50.8	51.7	260.9	256.9	1	6	93.5	96.8	55.8	56.2	3.8	175
		53.1	54.0	261.9	258.2	1	16	94.2	97.9	53.4	53.9		
		55.5	56.3	262.7	259.4	1	26	95.0	99.0	51.0	51.6		
834	3.7	47.2	47.8	264.3	259.8	1	18	92.8	96.7	52.2	52.6	3.3	1134
		49.6	50.2	265.2	261.0	1	28	93.6	97.8	49.8	50.3		
		52.0	52.5	266.0	262.1	1	38	94.4	98.9	47.4	48.0		
834	3.7	51.5	52.0	265.8	261.9	1	36	92.3	95.6	56.5	56.9	1.7	201
		53.9	54.3	266.6	263.0	1	46	93.0	96.6	54.1	54.6		
		56.3	56.7	267.3	264.0	1	56	93.8	97.7	51.7	52.2		
834	3.7	55.1	55.5	267.0	263.5	1	51	90.1	92.9	59.9	60.1	0.6	224
		57.5	57.9	267.7	264.5	2	1	90.7	93.9	57.5	57.7		
		59.9	60.2	268.4	265.5	2	11	91.4	94.9	55.1	55.4		
843	4.9	53.8	53.6	274.2	270.5	2	2	81.6	84.6	58.9	58.2	4.4	232
		56.2	55.9	274.7	271.3	2	12	82.0	85.3	56.5	55.9		
		58.6	58.3	275.2	272.1	2	22	82.4	86.1	54.1	53.6		
855	3.6	52.8	52.8	272.2	268.4	2	17	84.8	87.9	57.8	57.5	5.1	1169
		55.2	55.1	272.8	269.3	2	27	85.3	88.7	55.4	55.1		
		57.7	57.5	273.3	270.2	2	37	85.8	89.6	53.0	52.8		
1603	4.7	49.8	50.1	269.6	265.4	2	29	85.4	88.9	54.9	54.7	5.1	1169
		52.3	52.4	270.2	266.4	2	39	85.9	89.7	52.5	52.3		
		54.7	54.7	270.9	267.3	2	49	86.4	90.6	50.1	50.0		
871	2.6	52.1	51.6	277.6	273.7	2	40	80.0	83.3	56.7	56.0	1.9	251
		54.5	53.9	278.0	274.5	2	50	80.3	83.9	54.4	53.7		
		56.9	56.3	278.5	275.2	3	0	80.7	84.6	52.0	51.3		
892	4.3	48.8	49.5	264.1	259.8	2	54	91.8	95.5	53.8	54.2	4.5	1174
		51.2	51.8	265.0	261.0	3	4	92.5	96.5	51.4	51.8		
		53.6	54.1	265.8	262.1	3	14	93.3	97.6	49.0	49.5		
902	4.0	46.5	47.1	265.0	260.4	3	5	92.6	96.6	51.2	51.6	4.5	1174
		48.9	49.4	265.9	261.6	3	15	93.4	97.7	48.8	49.3		
		51.3	51.8	266.6	262.7	3	25	94.2	98.9	46.4	46.9		
1614	4.5	56.6	56.9	267.6	264.3	3	15	88.5	91.2	61.6	61.6	3.1	285
		59.0	59.3	268.3	265.3	3	25	89.1	92.1	59.2	59.3		
		61.4	61.6	269.0	266.3	3	35	89.8	93.0	56.8	56.9		
902	4.7	52.7	53.2	267.1	263.3	3	31	89.5	92.7	57.8	57.9	3.1	285
		55.2	55.5	267.8	264.4	3	41	90.2	93.6	55.4	55.5		
		57.6	57.8	268.5	265.4	3	51	90.8	94.6	53.0	53.2		
28	4.6	46.7	47.2	266.1	261.5	3	56	91.2	95.1	51.7	52.0	3.1	285
		49.1	49.6	266.9	262.6	4	6	91.9	96.1	49.3	49.7		
		51.5	51.9	267.7	263.7	4	16	92.6	97.2	46.9	47.4		
50	3.7	38.7	38.5	275.8	269.5	4	11	82.1	87.4	43.6	43.1	5.3	1188
		41.1	40.8	276.1	270.4	4	21	82.4	88.1	41.2	40.8		
		43.5	43.2	276.5	271.2	4	31	82.7	88.9	38.8	38.4		
28	4.6	52.7	53.1	268.0	264.2	4	21	88.5	91.7	57.4	57.4	3.8	312
		55.1	55.4	268.7	265.3	4	31	89.1	92.6	55.0	55.1		
		57.6	57.8	269.4	266.2	4	41	89.7	93.5	52.6	52.8		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT 15	LAT 20	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20	LAT 15	LAT 20		
60	4.5	41.8	42.4	266.9	261.3	4	34	89.2	93.9	46.7	46.8	5.3	1201
		44.3	44.7	267.6	262.5	4	44	89.8	94.9	44.3	44.5		
		46.7	47.0	268.4	263.7	4	54	90.5	96.0	41.9	42.1		
1034	5.3	52.5	53.3	262.8	259.0	4	45	92.7	95.8	57.5	57.9	4.2	1223
		54.9	55.6	263.6	260.2	4	55	93.4	96.9	55.1	55.6		
		57.3	57.9	264.5	261.3	5	5	94.2	97.9	52.7	53.2		
56	4.7	49.5	50.1	264.2	260.0	4	58	93.7	97.2	54.4	54.9	4.2	1223
		51.9	52.5	265.0	261.2	5	8	94.4	98.3	52.0	52.5		
		54.3	54.8	265.8	262.3	5	18	95.2	99.4	49.6	50.2		
85	4.3	40.6	41.3	265.4	259.6	5	11	91.8	96.7	45.4	45.7	3.8	312
		43.0	43.6	266.2	260.9	5	21	92.5	97.8	43.0	43.4		
		45.4	45.9	267.0	262.1	5	31	93.3	99.0	40.5	41.1		
60	4.5	54.4	54.5	270.5	266.9	5	26	85.4	88.4	59.5	59.3	5.1	1246
		56.8	56.9	271.1	267.8	5	36	86.0	89.2	57.1	56.9		
		59.2	59.2	271.7	268.7	5	46	86.5	90.1	54.7	54.6		
58	4.4	43.2	43.5	268.7	263.5	5	40	87.3	91.8	48.0	48.0	4.3	337
		45.6	45.9	269.4	264.6	5	50	87.9	92.8	45.6	45.6		
		48.0	48.2	270.1	265.6	6	0	88.4	93.8	43.2	43.3		
85	4.3	50.7	51.0	268.6	264.5	5	53	88.1	91.5	55.5	55.5	3.8	365
		53.2	53.4	269.3	265.6	6	3	88.7	92.4	53.1	53.1		
		55.6	55.7	269.9	266.5	6	13	89.3	93.4	50.7	50.8		
1072	5.0	52.4	53.0	265.4	261.6	6	5	89.8	93.0	57.6	57.7	4.9	378
		54.9	55.3	266.1	262.7	6	15	90.4	93.9	55.2	55.4		
		57.3	57.7	266.9	263.7	6	25	91.1	94.9	52.8	53.0		
85	4.3	57.0	57.1	270.3	267.1	6	19	87.2	85.9	61.8	61.7	3.9	396
		59.4	59.5	271.0	268.0	6	29	87.8	90.8	59.4	59.4		
		61.8	61.8	271.6	268.9	6	39	88.4	91.7	57.0	57.0		
123	3.8	46.4	46.6	269.1	264.4	6	35	86.4	90.3	51.6	51.4	1.3	390
		48.8	49.0	269.8	265.4	6	45	86.9	91.2	49.2	49.1		
		51.2	51.3	270.4	266.4	6	55	87.4	92.1	46.7	46.7		
1118	4.3	37.8	38.5	265.1	258.8	6	47	91.5	97.0	42.5	42.8	3.8	365
		40.2	40.8	265.9	260.1	6	57	92.3	98.2	40.1	40.5		
		42.6	43.1	266.8	261.4	7	7	93.1	99.5	37.7	38.2		
1093	5.0	55.6	56.3	263.6	260.2	6	59	94.4	97.2	60.2	60.7	5.1	1284
		58.0	58.6	264.4	261.3	7	9	95.1	98.2	57.8	58.4		
		60.4	60.9	265.2	262.4	7	19	95.9	99.3	55.4	56.1		
125	4.3	53.3	53.1	275.1	271.3	7	10	80.7	83.8	58.4	57.8	3.4	423
		55.8	55.4	275.5	272.1	7	20	81.1	84.5	56.1	55.4		
		58.2	57.8	276.0	272.9	7	30	81.5	85.2	53.7	53.1		
1118	4.3	45.7	46.1	267.8	262.9	7	20	88.4	92.4	50.8	50.9	5.3	409
		48.1	48.5	268.5	264.0	7	30	89.0	93.4	48.4	48.5		
		50.6	50.8	269.2	265.1	7	40	89.6	94.4	46.0	46.2		
151	3.9	52.0	52.6	265.8	261.9	7	31	92.5	95.7	56.8	57.2	4.1	427
		54.4	54.9	266.6	263.0	7	41	93.2	96.7	54.4	54.9		
		56.9	57.2	267.3	264.1	7	51	93.9	97.8	52.0	52.5		
150	4.0	54.2	53.9	274.7	271.1	7	43	81.7	84.7	59.0	58.4	2.2	444
		56.6	56.3	275.2	271.9	7	53	82.1	85.4	56.6	56.1		
		59.0	58.6	275.7	272.7	8	3	82.5	86.1	54.2	53.7		
179	3.8	46.3	47.1	263.3	259.6	7	55	94.3	98.2	51.1	51.6	4.1	427
		48.7	49.4	264.2	259.9	8	5	95.1	99.4	48.7	49.3		
		51.1	51.8	265.0	261.1	8	15	95.9	100.6	46.3	47.0		
179	3.8	49.2	49.9	264.4	260.1	8	7	92.7	96.3	54.0	54.4	4.2	1302
		51.6	52.2	265.2	261.3	8	17	93.4	97.3	51.6	52.1		
		54.0	54.5	266.0	262.4	8	27	94.2	98.5	49.2	49.7		
1140	4.7	47.1	46.7	277.2	272.6	8	19	81.5	85.5	51.8	51.3	5.5	1308
		49.5	49.0	277.6	273.3	8	29	81.9	86.2	49.4	48.9		
		51.9	51.3	278.0	274.0	8	39	82.3	86.9	47.1	46.6		
201	1.7	47.1	47.8	264.7	260.1	8	33	90.4	94.3	51.9	52.1	4.2	450
		49.5	50.1	265.5	261.3	8	43	91.1	95.4	49.5	49.8		
		51.9	52.4	266.3	262.4	8	53	91.8	96.4	47.1	47.4		
1142	5.4	52.8	52.9	271.0	267.2	8	44	87.1	90.2	57.8	57.7	5.0	1326
		55.2	55.2	271.6	268.2	8	54	87.7	91.1	55.4	55.3		
		57.6	57.6	272.2	269.1	9	4	88.2	92.0	53.0	53.0		
1142	5.4	55.2	55.2	271.6	268.2	8	54	85.7	88.6	60.2	59.9	3.0	488
		57.6	57.6	272.2	269.1	9	4	86.2	89.4	57.7	57.6		
		60.1	59.9	272.8	269.9	9	14	86.8	90.2	55.3	55.2		
208	4.5	52.3	52.4	270.5	266.6	9	7	86.4	89.6	57.0	56.8	3.0	488
		54.7	54.8	271.1	267.6	9	17	86.9	90.5	54.6	54.5		
		57.1	57.1	271.7	268.5	9	27	87.5	91.4	52.2	52.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT 15	LAT 20	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20	LAT 15	LAT 20		
1174	4.5	43.1	43.8	268.7	259.4	9	25	89.5	94.0	47.9	48.1	5.0	1326
		45.5	46.1	265.5	260.7	9	35	90.2	95.0	45.5	45.7		
		47.9	48.4	266.4	261.9	9	45	90.8	96.1	43.1	43.4		
232	4.4	52.7	52.2	277.3	273.5	9	45	78.5	81.6	57.7	56.9	4.5	507
		55.1	54.5	277.7	274.2	9	55	78.8	82.3	55.4	54.5		
		57.5	56.9	278.2	275.0	10	5	79.1	82.9	53.0	52.2		
256	3.4	46.3	46.1	273.7	268.9	9	55	84.0	88.1	51.3	51.0	5.2	1349
		48.7	48.5	274.2	269.7	10	5	84.5	88.9	48.9	48.6		
		51.1	50.8	274.7	270.6	10	15	84.9	89.7	46.5	46.3		
1169	5.1	56.0	55.7	274.9	271.5	10	6	83.1	85.9	61.0	60.5	5.3	1372
		58.4	58.0	275.4	272.3	10	16	83.6	86.7	58.6	58.2		
		60.8	60.4	275.9	273.1	10	26	84.1	87.5	56.2	55.8		
256	3.4	52.5	52.3	274.9	271.1	10	21	83.9	87.1	57.4	57.0	5.3	1372
		54.9	54.6	275.4	271.9	10	31	84.3	87.8	55.0	54.7		
		57.3	57.0	275.9	272.7	10	41	84.8	88.6	52.6	52.3		
1193	4.9	47.2	47.2	272.7	268.0	10	43	84.9	88.8	52.1	51.9	5.3	1372
		49.6	49.6	273.2	268.9	10	53	85.4	89.6	49.7	49.5		
		52.1	51.9	273.7	269.8	11	3	85.9	90.5	47.3	47.2		
1223	4.2	50.5	51.1	265.1	261.0	11	59	92.4	95.8	55.6	56.0	2.8	582
		52.9	53.4	265.9	262.1	12	9	93.1	96.8	53.2	53.6		
		55.3	55.8	266.6	263.2	12	19	93.9	97.9	50.8	51.3		
354	3.3	48.6	49.2	264.7	260.4	12	9	93.1	96.8	53.2	53.6	2.8	582
		51.0	51.5	265.6	261.6	12	19	93.9	97.9	50.8	51.3		
		53.4	53.9	266.3	262.7	12	29	94.7	99.1	48.4	49.0		
337	4.3	51.7	51.5	273.5	269.5	12	30	82.8	86.1	56.6	56.1	4.5	613
		54.1	53.9	274.0	270.4	12	40	83.3	86.9	54.2	53.8		
		56.5	56.2	274.6	271.2	12	50	83.7	87.7	51.8	51.4		
1246	5.1	47.5	47.6	271.8	267.3	12	46	83.5	87.4	52.7	52.3	4.5	613
		50.0	49.9	272.4	268.2	12	56	84.0	88.1	50.3	50.0		
		52.4	52.3	273.0	269.1	13	6	84.4	88.9	47.9	47.6		
379	3.6	41.0	40.5	278.6	272.9	12	57	80.6	85.5	45.6	45.0	5.3	1421
		43.4	42.9	278.8	273.5	13	7	80.9	86.2	43.2	42.7		
		45.8	45.2	279.1	274.2	13	17	81.1	86.9	40.9	40.3		
1246	5.1	52.6	52.5	273.0	269.2	13	7	84.2	87.4	57.5	57.1	4.9	635
		55.0	54.9	273.6	270.0	13	17	84.7	88.2	55.1	54.8		
		57.4	57.2	274.1	270.9	13	27	85.2	89.0	52.7	52.4		
1246	5.1	56.2	56.0	273.8	270.5	13	22	83.7	86.5	61.0	60.6	2.1	656
		58.6	58.4	274.4	271.3	13	32	84.2	87.3	58.6	58.2		
		61.0	60.7	274.9	272.1	13	42	84.7	88.1	56.2	55.9		
356	3.9	44.3	44.7	268.2	263.1	13	32	89.4	93.7	49.2	49.3	4.3	1442
		46.7	47.0	268.9	264.2	13	42	90.0	94.7	46.8	47.0		
		49.2	49.4	269.5	265.2	13	52	90.7	95.8	44.4	44.6		
378	4.9	57.3	57.4	270.1	266.9	13	52	87.0	89.6	62.2	62.0	3.7	680
		59.7	59.8	270.8	267.8	14	2	87.5	90.5	59.8	59.7		
		62.1	62.1	271.4	268.7	14	12	88.1	91.3	57.4	57.3		
356	3.9	53.3	53.4	270.6	266.9	14	9	89.0	91.1	58.1	58.0	3.7	680
		55.7	55.7	271.3	267.8	14	19	89.6	92.0	55.7	55.7		
		58.1	58.1	271.9	268.6	14	29	89.2	92.9	53.3	53.4		
423	3.4	46.4	46.0	277.3	272.6	14	26	80.4	84.4	51.1	50.5	4.7	1469
		48.8	48.3	277.7	273.3	14	36	80.7	85.1	48.8	48.1		
		51.2	50.7	278.1	274.0	14	46	81.0	85.8	46.4	45.8		
419	4.7	53.1	53.5	268.1	264.4	14	39	88.5	91.7	58.0	58.0	5.4	1484
		55.6	55.8	268.8	265.4	14	49	89.1	92.6	55.6	55.6		
		58.0	58.2	269.5	266.3	14	59	89.8	93.5	53.1	53.3		
450	4.2	42.2	42.7	266.6	261.2	14	55	90.9	95.5	47.0	47.3	3.7	680
		44.6	45.0	267.4	262.4	15	5	91.5	96.6	44.6	44.9		
		47.0	47.4	268.2	263.5	15	15	92.3	97.7	42.2	42.6		
444	2.2	49.4	49.0	276.7	272.4	15	13	82.0	85.7	54.3	53.8	4.2	712
		51.8	51.4	277.1	273.1	15	23	82.4	86.4	51.9	51.5		
		54.2	53.7	277.5	273.9	15	33	82.8	87.1	49.6	49.1		
445	3.8	54.9	55.8	261.6	258.2	15	26	95.2	98.1	59.9	60.5	3.4	730
		57.3	58.1	262.4	259.3	15	36	96.0	99.1	57.5	58.1		
		59.7	60.4	263.3	260.4	15	46	96.9	100.3	55.1	55.8		
1311	4.6	53.6	54.0	267.3	263.7	15	36	90.5	93.6	58.5	58.7	4.7	1511
		56.0	56.3	268.0	264.7	15	46	91.2	94.5	56.1	56.3		
		58.4	58.7	268.7	265.7	15	56	91.9	95.5	53.7	54.0		
1326	5.0	45.8	46.0	269.9	265.1	15	48	87.2	91.3	50.8	50.8	5.1	725
		48.2	48.4	270.6	266.1	15	58	87.7	92.2	48.4	48.4		
		50.6	50.7	271.2	267.1	16	8	88.3	93.1	46.0	46.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20	Z. D.	Z. D.		
488	3.0	43.4	43.6	270.3	265.1	15	59	87.8	92.3	48.2	46.2	5.1	725
		45.8	46.0	271.0	266.1	16	9	88.4	93.2	45.8	45.8		
		48.2	48.3	271.6	267.1	16	19	88.9	94.2	43.3	43.5		
484	3.7	50.2	51.0	261.9	257.8	16	13	92.8	96.2	54.9	55.3	3.9	749
		52.6	53.3	262.8	259.1	16	23	93.5	97.3	52.5	53.0		
		54.9	55.7	263.6	260.2	16	33	94.3	98.4	50.1	50.7		
1344	5.3	47.2	47.9	263.6	259.1	16	25	93.7	97.5	52.0	52.5	3.9	745
		49.6	50.3	264.5	260.3	16	35	94.4	98.6	49.6	50.2		
		52.0	52.6	265.3	261.5	16	45	95.3	99.8	47.2	47.9		
488	3.0	52.6	52.5	272.6	268.8	16	37	86.1	89.4	57.2	57.1	4.0	769
		55.0	54.9	273.2	269.6	16	47	86.7	90.2	54.8	54.7		
		57.4	57.2	273.7	270.5	16	57	87.2	91.1	52.4	52.4		
1349	5.2	49.4	49.1	275.6	271.3	16	52	81.0	84.6	54.5	53.8	3.9	774
		51.8	51.5	276.0	272.1	17	2	81.4	85.3	52.1	51.5		
		54.2	53.8	276.5	272.9	17	12	81.8	86.0	49.7	49.2		
1372	5.3	40.4	40.4	272.7	266.8	17	5	83.4	88.3	45.4	45.0	5.0	1526
		42.8	42.8	273.2	267.8	17	15	83.7	89.1	43.0	42.7		
		45.2	45.1	273.7	268.7	17	25	84.1	90.0	40.6	40.3		
1372	5.3	43.3	43.3	273.3	269.3	17	17	81.9	86.4	48.5	46.0	3.9	774
		45.7	45.6	273.8	268.9	17	27	82.3	87.1	46.1	45.6		
		48.1	47.9	274.3	263.9	17	37	82.6	87.9	43.7	43.3		
1375	5.1	55.4	55.8	266.9	263.4	18	6	91.5	94.4	60.3	60.5	3.7	834
		57.8	58.1	267.5	264.4	18	16	92.2	95.3	57.8	56.2		
		60.2	60.5	268.2	265.4	18	26	92.9	96.3	55.4	54.8		
562	5.4	49.4	50.1	263.6	259.4	18	31	93.3	96.9	54.2	54.7	3.7	834
		51.9	52.4	264.5	260.6	18	41	94.1	97.9	51.9	52.3		
		54.2	54.7	265.3	261.7	18	51	94.9	99.1	49.4	50.0		
582	2.9	52.1	52.6	266.5	262.7	19	13	88.5	91.8	57.1	57.1	4.7	1633
		54.5	54.9	267.3	263.7	19	23	89.1	92.7	54.7	54.7		
		56.9	57.2	268.0	264.8	19	33	89.8	93.6	52.3	52.4		
1442	4.3	37.6	38.1	267.3	260.9	19	26	88.4	93.8	42.5	42.5	4.9	843
		40.0	40.4	268.0	262.1	19	36	88.9	94.9	40.0	40.2		
		42.4	42.7	268.9	263.3	19	46	89.5	96.0	37.6	37.9		
1442	4.3	40.7	40.4	268.0	262.1	19	36	89.7	94.7	45.1	45.3	3.6	855
		42.4	42.7	268.8	263.3	19	46	90.4	95.8	42.7	42.9		
		44.8	45.1	269.4	264.4	19	56	91.3	96.9	40.3	40.6		
633	4.5	39.7	40.3	266.7	260.9	19	38	89.8	94.9	44.6	44.8	3.6	855
		42.2	42.6	267.5	262.3	19	48	90.5	96.0	42.2	42.5		
		44.6	44.9	268.2	263.2	19	58	91.2	97.1	39.8	40.1		
635	4.9	40.9	41.7	272.3	266.5	19	53	83.3	88.2	46.0	45.6	2.6	871
		43.3	43.3	272.8	267.5	20	3	83.7	89.0	43.6	43.2		
		45.7	45.7	273.3	268.5	20	13	84.1	89.8	41.2	40.9		
613	4.5	53.9	53.6	276.7	273.0	20	8	81.2	84.3	58.8	58.1	2.9	7
		56.3	55.9	277.1	273.8	20	18	81.7	85.0	56.4	55.9		
		58.7	58.2	277.6	274.5	20	28	82.1	85.7	54.0	53.4		
656	2.1	40.6	40.6	271.9	266.1	20	21	86.9	91.8	45.4	45.4	4.7	885
		43.0	43.0	272.5	267.1	20	31	87.4	92.8	43.0	43.0		
		45.4	45.3	273.0	268.1	20	41	88.0	93.8	40.6	40.7		
656	2.1	45.6	45.6	273.0	268.1	20	42	82.6	86.7	50.6	50.2	2.9	7
		48.0	47.9	273.6	269.1	20	52	83.0	87.5	48.2	47.8		
		50.4	50.3	274.1	269.9	21	2	83.4	88.3	45.8	45.5		
665	2.9	50.4	51.1	263.4	259.4	21	3	91.2	94.6	55.5	55.7	4.6	28
		52.8	53.4	264.3	260.5	21	13	91.9	95.6	53.0	53.4		
		55.2	55.7	265.1	261.7	21	23	92.6	96.7	50.6	51.0		
656	2.1	55.0	54.7	275.0	271.5	21	21	80.8	83.7	60.0	59.3	3.7	50
		57.4	57.1	275.5	272.3	21	31	81.2	84.4	57.6	57.0		
		59.8	59.4	276.0	273.1	21	41	81.6	85.1	55.2	54.6		
665	2.9	57.1	57.6	265.7	262.5	21	31	91.9	94.5	61.9	62.2	4.7	56
		59.5	59.9	266.4	263.5	21	41	92.6	95.5	59.5	59.9		
		61.9	62.3	267.2	264.5	21	51	93.3	96.5	57.1	57.5		
1476	4.9	52.8	53.6	262.7	259.0	21	49	93.2	96.3	57.6	58.0	4.7	56
		55.2	55.9	263.5	260.1	21	59	93.9	97.3	55.2	55.7		
		57.6	58.2	264.4	261.2	22	9	94.7	98.4	52.8	53.3		
716	3.0	44.1	44.0	274.5	269.4	22	7	82.7	87.0	49.0	48.5	3.7	50
		46.5	46.3	275.0	270.2	22	17	83.0	87.8	46.6	46.2		
		48.9	48.7	275.4	271.1	22	27	83.4	88.6	44.2	43.8		
1511	4.7	43.5	44.2	264.8	259.7	22	28	91.2	95.6	48.3	48.6	4.5	60
		45.9	46.5	265.7	260.9	22	38	91.9	96.7	45.9	46.2		
		48.3	48.8	266.5	262.1	22	48	92.6	97.8	43.5	43.9		

CATNO	MAG	WEST STAR		AZ		LST	HRS	MIN	AZ		EAST STAR		MAG	CATNO
		Z. D.		LAT 15	LAT 20				LAT 15	LAT 20	Z. D.			
749	3.9	41.1	42.0	262.3	256.8	22	38		91.9	96.7	45.9	46.2	4.5	60
		43.5	44.3	263.3	258.2	22	48		92.6	97.8	43.5	43.9		
		45.9	46.6	264.2	259.5	22	58		93.4	99.1	41.0	41.6		
1511	4.7	48.6	49.0	266.5	262.2	22	49		90.6	94.2	53.7	53.9	4.3	85
		51.0	51.4	267.3	263.3	22	59		91.2	95.2	51.3	51.5		
		53.4	53.7	268.0	264.3	23	9		91.9	96.3	48.9	45.2		
737	3.4	54.9	55.6	263.1	259.6	23	2		94.1	97.0	59.8	60.3	2.8	107
		57.3	57.9	263.9	260.7	23	12		94.9	98.0	57.4	58.0		
		59.7	60.2	264.7	261.8	23	22		95.7	99.1	55.0	55.7		
740	3.9	49.9	50.5	265.7	261.5	23	15		89.7	93.2	54.9	55.0	4.7	1083
		52.4	52.8	266.4	262.6	23	25		90.3	94.1	52.5	52.7		
		54.8	55.2	267.2	263.7	23	35		91.0	95.1	50.1	50.4		
741	2.9	53.9	53.8	272.3	268.6	23	26		83.8	86.8	59.0	58.6	4.3	125
		56.3	56.2	272.8	269.5	23	36		84.3	87.6	56.6	56.2		
		58.7	58.5	273.4	270.3	23	46		84.8	88.4	54.2	53.9		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 20	LAT 25	HRS	MIN	LAT 20	LAT 25	Z.D.	Z.D.		
772	5.2	47.7	48.3	265.4	260.9	23	52	88.9	92.7	52.5	52.6	4.3	125
		50.0	50.5	266.4	262.2	0	2	89.7	93.9	50.1	50.3		
		52.4	52.8	267.3	263.5	0	12	90.6	95.1	47.8	48.0		
1531	5.4	55.3	56.1	262.4	259.0	0	2	94.8	97.7	59.8	60.4	3.9	151
		57.7	58.4	263.4	260.3	0	12	95.8	98.9	57.5	58.1		
		60.0	60.6	264.4	261.6	0	22	96.8	100.2	55.2	55.9		
1526	5.0	57.0	56.7	275.5	272.2	0	13	81.5	84.2	61.9	61.2	1.1	168
		59.4	59.0	276.2	273.2	0	23	82.2	85.1	59.5	59.0		
		61.7	61.2	276.9	274.2	0	33	82.9	86.1	57.2	56.7		
1541	4.5	51.6	51.3	275.0	271.0	0	23	81.9	85.2	56.3	55.7	3.9	162
		53.9	53.6	275.7	272.0	0	33	82.5	86.1	54.0	53.5		
		56.3	55.9	276.4	273.0	0	43	83.1	87.1	51.6	51.2		
815	2.5	43.5	44.4	263.1	258.0	0	35	90.9	95.3	48.6	48.8	4.0	150
		45.9	46.6	264.2	259.5	0	49	91.8	96.6	46.2	46.6		
		48.2	48.8	265.3	260.9	0	59	92.7	97.9	43.9	44.3		
800	4.1	50.3	55.2	261.7	258.3	0	50	93.9	96.8	59.2	55.7	3.3	1130
		56.6	57.4	262.9	259.6	1	0	94.8	98.1	56.9	57.4		
		59.0	59.6	263.8	260.9	1	10	95.8	99.3	54.5	55.2		
800	4.1	54.8	55.6	262.0	258.5	0	52	95.4	98.3	59.5	60.1	3.8	179
		57.1	57.8	263.0	259.9	1	2	96.4	99.6	57.2	57.9		
		59.4	60.1	264.0	261.1	1	12	97.5	100.9	54.8	55.6		
843	4.9	39.0	39.8	264.6	258.5	1	0	92.8	98.0	43.6	44.1	4.0	150
		41.4	42.0	265.7	260.1	1	10	93.9	99.5	41.3	41.9		
		43.7	44.2	266.7	261.5	1	20	94.9	101.0	38.9	39.6		
843	4.3	42.5	43.1	266.2	260.8	1	15	89.0	92.7	47.3	47.3	4.8	1125
		44.9	45.3	267.2	262.2	1	25	88.8	93.8	44.9	45.1		
		47.2	47.6	268.1	263.5	1	35	89.7	95.1	42.6	42.8		
843	4.9	44.9	45.3	267.2	262.2	1	25	88.1	92.4	49.5	45.5	5.2	1136
		47.2	47.6	268.1	263.5	1	35	88.9	93.6	47.1	47.2		
		49.6	49.8	269.0	264.8	1	45	89.8	94.8	44.8	45.0		
824	3.7	55.5	56.2	263.5	261.2	1	51	92.9	95.8	60.1	60.4	0.6	224
		57.9	58.5	264.5	261.5	2	1	93.9	97.0	57.7	58.2		
		60.2	60.7	265.5	262.7	2	11	94.9	98.3	55.4	55.9		
842	4.9	53.6	52.7	270.5	266.8	2	2	84.6	87.7	58.2	57.9	4.4	232
		55.9	55.9	271.3	267.9	2	12	85.3	88.7	55.9	55.6		
		58.3	58.2	272.1	269.0	2	22	86.1	89.8	53.6	53.4		
855	3.6	50.3	53.1	268.4	264.6	2	17	87.9	91.1	57.5	57.4	5.1	1169
		55.1	55.4	269.3	265.8	2	27	88.7	92.2	55.1	55.2		
		57.5	57.6	270.2	267.0	2	37	89.6	93.3	52.8	52.9		
1633	4.7	45.8	50.4	265.3	261.1	2	28	88.8	92.3	54.9	54.6	5.1	1165
		52.2	52.7	266.3	262.4	2	38	89.6	93.5	52.5	52.7		
		54.5	54.9	267.2	263.7	2	48	90.5	94.6	50.2	50.4		
871	2.6	51.3	51.2	273.7	269.6	2	39	83.2	86.6	56.2	55.8	1.9	251
		53.7	53.5	274.4	270.7	2	49	83.9	87.5	53.9	53.5		
		56.0	55.7	275.1	271.7	2	59	84.5	88.5	51.6	51.3		
885	4.7	50.2	50.4	270.0	265.9	2	56	89.0	91.5	54.9	54.9	3.4	256
		52.6	52.7	270.9	267.0	3	6	88.8	92.6	52.6	52.6		
		54.9	54.9	271.7	268.2	3	16	89.6	93.8	50.2	50.4		
1625	5.4	47.6	48.1	266.5	262.0	3	6	88.9	92.6	52.6	52.6	3.4	256
		49.9	50.3	267.4	263.3	3	16	89.6	93.8	50.2	50.4		
		52.3	52.6	268.4	264.5	3	26	90.5	95.0	47.9	48.1		
898	5.2	48.0	47.5	278.0	273.5	3	16	78.8	82.6	52.9	52.1	3.9	265
		50.3	49.8	278.5	274.4	3	26	79.3	83.4	50.6	49.9		
		52.7	52.0	279.1	275.3	3	36	79.8	84.3	48.3	47.6		
7	2.0	48.2	48.2	272.6	268.1	3	34	84.0	87.8	52.8	52.4	3.7	277
		50.5	50.4	273.4	269.2	3	44	84.6	88.8	50.5	50.2		
		52.9	52.7	274.1	270.3	3	54	85.3	89.8	48.1	47.9		
1020	5.2	46.7	46.5	274.6	269.9	4	5	81.7	85.7	51.7	51.1	5.0	1200
		49.0	48.8	275.3	270.9	4	15	82.3	86.6	49.4	48.9		
		51.4	51.0	275.0	271.9	4	25	82.9	87.6	47.0	46.6		
28	4.6	52.8	53.5	264.1	260.4	4	20	91.6	94.7	57.7	56.0	3.8	312
		55.2	55.7	265.2	261.7	4	30	92.5	95.9	55.3	55.7		
		57.5	58.0	266.1	263.0	4	40	93.5	97.2	53.0	53.5		
1020	5.2	53.7	53.3	276.6	272.9	4	35	80.4	83.5	58.4	57.7	4.2	326
		56.0	55.6	277.3	273.9	4	45	81.0	84.4	56.1	55.4		
		58.4	57.8	277.9	274.8	4	55	81.6	85.3	53.8	53.2		
50	3.7	48.8	48.7	273.1	268.7	4	55	81.6	85.3	53.8	53.2	4.2	326
		51.1	51.0	273.8	269.7	5	5	82.2	86.2	51.4	50.9		
		53.5	53.3	274.5	270.8	5	15	82.8	87.2	49.1	48.7		

CATNO	MAG	WEST STAR		AZ		LST	AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 20	LAT 25		LAT 20	LAT 25	Z.D.	Z.D.		
		LAT 20	LAT 25	LAT 20	LAT 25	HRS MIN	LAT 20	LAT 25	LAT 20	LAT 25		
60	4.5	50.5	51.1	265.3	261.2	5 9	89.1	92.6	55.2	55.3	4.3	337
		52.9	53.4	266.2	262.5	5 19	90.0	93.7	52.9	53.1		
		55.2	55.6	267.2	263.8	5 29	90.8	94.9	50.5	50.8		
60	4.5	54.5	54.9	266.9	263.4	5 26	88.4	91.4	59.3	59.3	5.1	1246
		56.9	57.2	267.8	264.6	5 36	89.2	92.5	56.9	57.0		
		59.2	59.4	268.7	265.8	5 46	90.1	93.6	54.6	54.7		
98	4.4	43.3	44.1	263.3	258.2	5 39	91.7	96.2	48.2	48.5	4.3	337
		45.7	46.3	264.5	259.7	5 49	92.7	97.5	45.8	46.3		
		48.0	48.6	265.5	261.1	5 59	93.7	98.9	43.5	44.0		
85	4.3	50.8	51.5	264.4	260.4	5 52	91.4	94.8	55.7	56.0	3.8	365
		53.1	53.7	265.5	261.8	6 2	92.3	96.0	53.4	53.7		
		55.5	55.9	266.4	263.0	6 12	93.3	97.3	51.0	51.5		
1083	4.7	45.9	46.7	262.8	258.1	6 3	91.6	95.6	50.6	50.9	5.1	1246
		48.2	48.9	263.9	259.5	6 13	92.5	96.9	48.2	48.6		
		50.5	51.1	264.9	260.9	6 23	93.5	98.2	45.9	46.4		
85	4.3	57.1	57.5	267.1	263.9	6 19	89.9	92.6	61.7	61.8	3.9	396
		59.5	59.8	268.0	265.1	6 29	90.8	93.7	59.4	59.5		
		61.8	62.0	268.9	266.2	6 39	91.7	94.9	57.0	57.3		
123	3.8	46.6	47.3	264.4	259.8	6 35	90.3	94.3	51.4	51.6	1.3	360
		49.0	49.6	265.4	261.1	6 45	91.2	95.5	49.1	49.4		
		51.3	51.8	266.4	262.5	6 55	92.1	96.8	46.7	47.1		
121	3.8	50.2	50.8	265.0	260.9	6 47	92.4	95.8	55.1	55.5	3.9	396
		52.6	53.1	266.0	262.2	6 57	93.3	97.1	52.8	53.2		
		54.9	55.3	267.0	263.5	7 7	94.3	98.4	50.4	51.0		
159	3.9	39.0	39.3	270.3	264.1	7 2	86.2	91.5	43.7	43.6	3.6	375
		41.4	41.5	271.1	265.4	7 12	86.9	92.6	41.3	41.7		
		43.7	43.8	271.9	266.7	7 22	87.7	93.8	39.0	39.1		
1104	5.4	52.4	53.3	262.0	258.2	7 13	94.0	97.2	57.2	57.7	4.7	418
		54.8	55.5	263.0	259.6	7 23	95.0	98.5	54.9	55.5		
		57.1	57.7	264.1	260.9	7 33	96.0	99.8	52.5	53.2		
125	4.3	57.3	57.2	272.7	269.5	7 28	83.6	86.3	61.9	61.5	2.2	444
		59.6	59.5	273.5	270.6	7 38	84.3	87.3	59.6	59.2		
		62.0	61.7	274.3	271.6	7 48	85.0	88.3	57.2	57.0		
164	3.6	45.2	44.8	277.5	272.5	7 40	79.4	83.7	49.7	49.0	2.6	422
		47.5	47.0	278.0	273.4	7 50	79.9	84.5	47.4	46.7		
		49.9	49.3	278.6	274.4	8 0	80.4	85.4	45.1	44.5		
151	3.9	57.2	57.0	264.1	260.9	7 51	90.5	93.1	62.0	62.1	4.2	450
		59.6	60.1	265.1	262.2	8 1	91.4	94.3	59.6	59.9		
		61.9	62.4	266.0	263.4	8 11	92.3	95.4	57.3	57.6		
1125	4.3	50.2	50.2	272.0	268.7	8 3	84.4	87.9	55.0	54.7	5.5	1308
		52.6	52.4	273.7	269.8	8 13	85.1	88.9	52.7	52.4		
		54.9	54.7	274.4	270.9	8 23	85.8	89.9	50.3	50.2		
1134	3.3	51.6	52.4	262.8	259.0	8 15	92.6	95.9	56.3	56.7	4.2	450
		53.9	54.6	263.9	260.3	8 25	93.6	97.2	54.0	54.5		
		56.3	56.9	264.9	261.6	8 35	94.5	98.4	51.7	52.2		
1148	5.3	42.2	42.1	275.0	269.5	8 25	83.4	85.0	47.2	46.6	4.5	1304
		44.6	44.3	275.6	270.5	8 35	84.9	85.9	44.9	44.3		
		46.9	46.6	276.2	271.5	8 45	86.4	86.8	42.6	42.0		
218	5.5	39.9	39.9	274.0	263.0	8 35	80.9	85.9	44.9	44.3	4.5	1304
		42.2	42.1	274.6	269.1	8 45	81.4	86.8	42.6	42.0		
		44.6	44.3	275.3	270.2	8 55	81.8	87.8	40.2	39.8		
1169	5.1	37.8	38.6	264.3	258.0	9 50	89.8	95.2	42.7	42.9	2.2	444
		40.2	40.8	265.4	259.6	9 0	90.7	96.5	40.3	40.7		
		42.5	43.1	266.4	261.1	9 10	91.6	97.9	38.0	38.4		
208	4.5	52.2	52.6	266.5	262.7	9 6	89.6	92.8	57.1	57.2	3.0	488
		54.5	54.9	267.5	263.9	9 16	90.4	93.9	54.7	54.9		
		56.9	57.2	268.4	265.1	9 26	91.3	95.1	52.4	52.7		
251	1.9	39.8	39.9	271.9	265.9	9 24	83.6	88.6	44.8	44.4	5.2	473
		42.2	42.2	272.6	267.1	9 34	84.2	89.6	42.4	42.1		
		44.5	44.4	273.4	268.3	9 44	84.7	90.7	40.1	39.9		
232	4.4	52.2	52.1	273.5	269.6	9 45	81.6	84.9	56.9	56.3	4.5	507
		54.5	54.3	274.2	270.7	9 55	82.3	85.8	54.5	54.0		
		56.9	56.6	275.0	271.7	10 5	82.9	86.8	52.2	51.8		
256	3.4	46.1	46.5	268.9	264.1	9 55	88.1	92.1	51.0	51.0	5.2	1349
		48.5	48.7	269.7	265.3	10 5	88.9	93.3	48.6	48.7		
		50.8	51.0	270.6	266.5	10 15	89.7	94.5	46.3	46.5		
1169	5.1	55.7	55.7	271.5	268.1	10 6	85.9	88.7	60.5	60.3	5.3	1372
		58.0	58.0	272.3	269.1	10 16	86.7	89.8	58.2	58.0		
		60.4	60.2	273.1	270.2	10 26	87.5	90.9	55.8	55.8		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT 20 LAT 25	Z. D. LAT 20 LAT 25	LAT 20 LAT 25	LAT 20 LAT 25	HRS MIN	HRS MIN	LAT 20 LAT 25	LAT 20 LAT 25	Z. D. LAT 20 LAT 25	Z. D. LAT 20 LAT 25		
277	3.7	44.4	44.3	273.6	268.5	10 24	10 24	82.4	86.7	49.3	48.8	2.8	513
		46.7	46.6	274.3	269.5	10 34	10 34	83.0	87.7	47.0	46.6		
		49.1	48.8	275.0	270.6	10 44	10 44	83.6	88.7	44.7	44.3		
277	3.7	46.7	46.6	274.3	269.5	10 34	10 34	80.8	84.7	51.7	51.1	0.2	526
		49.1	48.8	275.0	270.6	10 44	10 44	81.3	85.6	49.4	48.8		
		51.4	51.1	275.6	271.6	10 54	10 54	81.9	86.5	47.1	46.6		
1201	5.3	45.3	45.9	265.5	260.6	10 50	10 50	89.4	93.5	50.2	50.3	5.3	1372
		47.7	48.2	266.5	262.0	11 0	11 0	90.2	94.7	47.9	48.1		
		50.0	50.4	267.4	263.3	11 10	11 10	91.1	96.0	45.5	45.8		
326	4.2	51.4	50.9	277.8	273.8	12 22	12 22	79.8	83.2	56.0	55.2	3.8	609
		53.7	53.2	278.4	274.7	12 32	12 32	80.4	84.1	53.7	53.0		
		56.0	55.4	279.0	275.6	12 42	12 42	81.0	85.0	51.4	50.7		
379	3.6	37.9	38.0	272.0	265.6	12 46	12 46	84.5	89.9	42.9	42.6	4.3	584
		40.3	40.3	272.7	266.8	12 56	12 56	85.1	90.9	40.5	40.4		
		42.6	42.6	273.5	268.0	13 6	13 6	85.7	92.1	38.2	38.1		
379	3.6	40.5	40.5	272.8	267.1	12 57	12 57	85.5	90.5	45.0	44.8	5.3	1421
		42.9	42.8	273.5	268.1	13 7	13 7	86.2	91.6	42.7	42.6		
		45.2	45.1	274.2	269.2	13 17	13 17	86.9	92.8	40.3	40.3		
1246	5.1	52.5	52.8	269.2	265.4	13 7	13 7	87.4	90.7	57.1	57.1	4.9	635
		54.9	55.0	270.0	266.5	13 17	13 17	88.2	91.8	54.8	54.8		
		57.2	57.3	270.9	267.7	13 27	13 27	89.0	92.9	52.4	52.5		
379	4.9	49.2	50.0	263.4	259.2	13 17	13 17	92.9	96.5	53.9	54.4	4.5	633
		51.6	52.2	264.5	260.6	13 27	13 27	93.8	97.7	51.6	52.1		
		53.9	54.5	265.5	261.9	13 37	13 37	94.8	99.1	49.3	49.9		
396	3.9	44.7	45.5	263.1	259.2	13 32	13 32	93.7	97.9	49.3	48.8	4.3	1482
		47.0	47.7	264.2	259.6	13 42	13 42	94.7	99.3	47.0	47.6		
		49.4	50.0	265.2	261.0	13 52	13 52	95.8	100.7	44.6	45.4		
409	5.3	43.5	44.2	264.4	259.2	13 45	13 45	90.6	95.0	48.2	48.5	4.9	635
		45.8	46.5	265.5	260.7	13 55	13 55	91.5	96.3	45.9	46.2		
		48.2	48.7	266.5	262.1	14 5	14 5	92.4	97.6	43.5	44.0		
396	3.9	53.4	53.8	266.9	263.2	14 9	14 9	91.1	94.2	58.0	58.3	3.7	660
		55.7	56.0	267.8	264.5	14 19	14 19	92.0	95.4	55.7	56.0		
		58.1	58.3	268.7	265.6	14 29	14 29	92.9	96.6	53.4	53.8		
423	3.4	45.7	45.7	272.5	267.6	14 25	14 25	84.3	88.5	50.7	50.4	4.7	1469
		48.1	48.0	273.2	268.7	14 35	14 35	85.0	89.5	48.4	48.1		
		50.4	50.3	274.0	269.9	14 45	14 45	85.7	90.5	46.0	45.9		
413	4.7	53.2	53.9	264.3	261.5	14 38	14 38	91.6	94.7	58.2	58.5	5.4	1484
		55.6	56.1	265.3	261.9	14 48	14 48	92.5	95.8	55.9	56.2		
		57.9	58.4	266.2	263.2	14 58	14 58	93.4	97.1	53.5	54.0		
423	3.4	51.1	50.9	274.2	270.1	14 48	14 48	81.1	84.5	56.0	55.4	4.4	1491
		53.5	53.2	274.9	271.2	14 58	14 58	81.7	85.4	53.7	53.1		
		55.9	55.5	275.6	272.2	15 8	15 8	82.3	86.3	51.3	50.9		
444	2.2	49.0	49.0	272.4	269.1	15 13	15 13	85.7	89.3	53.8	53.6	4.2	712
		51.4	51.3	273.1	269.1	15 23	15 23	86.4	90.4	51.5	51.3		
		53.7	53.5	273.9	270.2	15 33	15 33	87.1	91.5	49.1	49.1		
1322	4.2	55.6	56.3	264.3	260.9	15 28	15 28	92.8	95.6	60.6	60.9	4.7	1511
		58.1	58.5	265.3	262.2	15 38	15 38	93.8	96.8	58.2	58.7		
		60.3	60.8	266.2	263.4	15 48	15 48	94.7	98.1	55.9	56.4		
1339	5.5	53.3	53.0	275.1	271.4	15 39	15 39	80.2	83.3	58.1	57.4	3.8	743
		55.7	55.3	275.8	272.4	15 49	15 49	80.8	84.2	55.8	55.1		
		58.0	57.6	276.5	273.4	15 59	15 59	81.4	85.1	53.5	52.9		
489	3.7	41.7	42.5	264.2	258.7	15 51	15 51	89.7	94.4	46.5	46.7	3.0	716
		44.1	44.7	265.3	260.2	16 1	16 1	90.5	95.7	44.2	44.5		
		46.4	47.0	266.3	261.6	16 11	16 11	91.4	97.0	41.8	42.2		
1326	5.0	49.5	50.0	266.6	262.4	16 3	16 3	91.3	94.8	54.2	54.5	2.8	741
		51.9	52.3	267.6	263.7	16 13	16 13	92.2	96.1	51.9	52.2		
		54.2	54.5	268.5	264.9	16 23	16 23	93.1	97.3	49.5	50.0		
1326	5.0	54.9	55.2	268.7	265.2	16 26	16 26	88.5	91.4	59.6	59.6	4.0	769
		57.3	57.5	269.6	266.4	16 36	16 36	89.3	92.5	57.3	57.4		
		59.6	59.7	270.5	267.5	16 46	16 46	90.1	93.6	54.9	55.1		
489	3.7	52.5	52.8	268.8	265.0	16 37	16 37	89.4	92.6	57.1	57.1	4.0	768
		54.9	55.1	269.6	266.1	16 47	16 47	90.2	93.7	54.7	54.9		
		57.2	57.3	270.5	267.3	16 57	16 57	91.1	94.9	52.4	52.6		
1349	5.2	49.1	49.2	271.3	267.0	16 52	16 52	84.6	88.3	53.8	53.5	3.9	774
		51.5	51.5	272.1	268.1	17 2	17 2	85.3	89.3	51.5	51.3		
		53.8	53.7	272.9	269.2	17 12	17 12	86.0	90.4	49.2	49.0		
513	2.8	44.8	44.4	276.5	271.4	17 4	17 4	78.8	83.0	49.8	49.0	4.8	1539
		47.1	46.7	277.1	272.4	17 14	17 14	79.2	83.8	47.5	46.7		
		49.4	49.0	277.6	273.3	17 24	17 24	79.7	84.7	45.2	44.5		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 20 LAT 25	LAT 20 LAT 25	LAT 20 LAT 25	HRS MIN	LAT 20 LAT 25	LAT 20 LAT 25	LAT 20 LAT 25	Z. D.	LAT 20 LAT 25		
1372	5.3	43.3	43.7	268.0	262.7	17 17	86.4	90.9	48.0	47.9	3.9	774	
		45.6	45.9	268.9	264.0	17 27	87.1	92.0	45.6	45.6			
		47.9	48.2	269.8	265.3	17 37	87.9	93.2	43.3	43.3			
513	2.8	50.1	49.6	277.8	273.6	17 27	79.5	83.0	54.8	54.0	4.3	804	
		52.5	51.9	278.4	274.5	17 37	80.0	83.9	52.4	51.7			
		54.8	54.2	279.0	275.5	17 47	80.6	84.8	50.1	49.5			
1378	5.4	46.3	45.8	278.0	273.2	17 43	80.4	84.4	51.1	50.4	4.3	804	
		48.6	48.1	278.5	274.1	17 53	80.9	85.3	48.7	48.1			
		51.0	50.4	279.1	275.0	18 3	81.4	86.2	46.4	45.9			
1375	5.1	55.8	56.5	263.4	260.1	18 6	94.4	97.1	60.5	61.0	3.7	834	
		58.1	58.8	264.4	261.4	18 16	95.3	98.4	58.2	58.8			
		60.5	61.0	265.4	262.6	18 26	96.3	99.7	55.8	56.5			
584	4.3	38.7	38.6	274.4	268.2	18 32	82.8	88.1	43.4	43.0	5.3	1570	
		41.1	40.9	275.1	269.3	18 42	83.4	89.1	41.1	40.7			
		43.4	43.1	275.7	270.4	19 52	83.9	90.2	38.7	38.5			
582	2.8	52.3	53.1	262.6	258.8	19 12	91.7	94.9	57.3	57.6	4.7	1603	
		54.7	55.4	263.6	260.2	19 22	92.6	96.1	55.0	55.4			
		57.0	57.6	264.7	261.5	19 32	93.5	97.3	52.6	53.1			
588	3.8	55.0	55.9	261.2	257.9	19 27	94.5	97.4	59.7	60.2	4.5	1614	
		57.3	58.1	262.3	259.2	19 37	95.5	98.6	57.4	58.0			
		59.6	60.3	263.4	260.5	19 47	96.5	99.9	55.0	55.7			
584	4.3	54.4	53.8	278.5	274.9	19 39	70.3	82.3	59.1	58.3	5.2	856	
		56.7	56.0	279.1	275.8	19 49	70.9	83.1	56.8	56.1			
		59.0	58.3	279.7	276.7	19 59	80.4	84.0	54.5	53.8			
635	4.9	41.0	41.5	266.5	260.9	19 53	88.2	93.1	45.6	45.6	2.6	871	
		43.3	43.8	267.5	262.3	20 3	89.0	94.3	43.2	43.4			
		45.7	46.0	268.5	263.6	20 13	89.8	95.6	40.9	41.1			
613	4.5	53.5	53.4	273.0	269.3	20 8	84.3	87.4	58.1	57.8	2.9	7	
		55.9	55.7	273.8	270.4	20 18	85.0	88.4	55.8	55.5			
		58.2	58.0	274.5	271.4	20 28	85.7	89.4	53.4	53.2			
656	2.1	40.6	41.2	266.1	260.4	20 21	91.8	96.7	45.4	45.7	4.7	885	
		43.0	43.5	267.1	261.8	20 31	92.8	98.1	43.0	43.5			
		45.3	45.7	268.1	263.2	20 41	93.8	99.5	40.7	41.2			
656	2.1	45.3	45.7	268.1	263.2	20 41	86.7	90.8	50.4	50.3	2.9	7	
		47.7	48.0	269.0	264.4	20 51	87.4	91.9	48.0	48.0			
		50.0	50.2	269.8	265.7	21 1	88.2	93.1	45.7	45.8			
656	2.1	54.5	54.5	271.4	267.9	21 20	83.7	86.6	59.5	59.1	3.7	50	
		56.8	56.8	272.2	269.1	21 30	84.4	87.6	57.2	56.8			
		59.2	59.1	273.0	270.0	21 40	85.1	88.6	54.9	54.6			
703	4.3	42.6	42.0	278.9	273.5	21 47	79.5	84.1	47.4	46.7	4.9	1032	
		44.9	44.3	279.4	274.4	21 57	80.0	85.0	45.0	44.5			
		47.2	46.6	279.9	275.2	22 7	80.4	85.8	42.8	42.2			
716	3.0	44.0	44.2	269.4	264.2	22 7	87.0	91.5	48.5	48.5	3.7	50	
		46.3	46.5	270.2	265.5	22 17	87.8	92.6	46.2	46.2			
		48.7	48.8	271.1	266.7	22 27	88.6	93.8	43.8	43.9			
1484	5.4	57.3	57.6	268.1	264.9	22 29	89.1	91.7	62.0	62.0	4.4	96	
		59.6	59.8	269.0	266.1	22 39	89.9	92.8	59.7	59.8			
		62.0	62.1	269.8	267.2	22 49	90.8	94.0	57.3	57.5			
743	3.8	40.6	40.4	275.4	269.5	22 35	80.2	85.2	45.4	44.8	2.7	66	
		43.0	42.7	276.0	270.6	22 49	80.7	86.0	43.1	42.5			
		45.3	44.9	276.6	271.6	22 59	81.1	86.9	40.8	40.3			
1511	4.7	49.0	49.9	262.2	258.0	22 49	94.2	97.8	53.9	54.4	4.3	85	
		51.4	52.1	263.3	259.4	22 59	95.2	99.1	51.5	52.2			
		53.7	54.4	264.3	260.7	23 9	96.3	100.5	49.2	49.9			
1511	4.7	52.8	53.5	263.9	260.2	23 5	92.2	95.4	57.4	57.7	4.7	1083	
		55.1	55.7	264.9	261.5	23 15	93.2	96.6	55.0	55.5			
		57.5	57.9	265.9	262.8	23 25	94.1	97.9	52.7	53.2			
1503	5.2	56.1	56.1	271.1	267.8	23 16	86.0	88.8	60.9	60.7	4.3	125	
		58.4	58.4	271.9	268.9	23 26	86.8	89.9	58.6	58.4			
		60.8	60.7	272.7	269.9	23 36	87.6	90.9	56.2	56.2			
749	3.9	53.3	54.1	262.9	259.2	23 27	91.8	94.9	58.1	58.4	3.8	121	
		55.6	56.3	263.9	260.6	23 37	92.7	96.1	55.7	56.1			
		58.0	58.5	264.9	261.8	23 47	93.7	97.3	53.4	53.9			
741	2.8	57.3	57.5	269.9	266.7	23 41	86.2	88.8	62.2	62.0	4.0	150	
		59.7	59.8	270.9	267.8	23 51	86.9	89.8	59.8	59.7			
		62.0	62.0	271.6	268.9	24 1	87.7	90.9	57.5	57.4			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 25 LAT 30	LAT 25 LAT 30	HRS MIN	LAT 25 LAT 30	LAT 25 LAT 30	LAT 25 LAT 30	LAT 25 LAT 30	Z. D.	LAT 25 LAT 30		
772	5.2	48.1 50.3 52.6	49.1 51.2 53.3	260.7 262.1 263.4	256.4 258.1 259.6	23 51 0 1 0 11	92.6 93.8 95.0	96.4 97.8 99.4	52.8 50.5 48.3	53.2 51.0 48.9	4.3	125	
1539	4.8	48.7 50.9 53.2	48.3 50.5 52.6	276.9 277.7 278.5	272.5 273.6 274.7	0 10 0 20 0 30	80.3 81.1 81.9	84.1 85.2 86.3	53.2 51.0 48.7	52.5 50.4 48.2	4.5	1112	
778	4.5	51.7 54.0 56.3	51.9 54.1 56.2	269.8 270.8 271.8	265.8 267.2 268.5	0 20 0 30 0 40	87.4 88.4 89.4	90.7 92.0 93.3	56.3 54.1 51.8	56.2 54.1 51.9	3.9	159	
1541	4.5	52.9 55.2 57.4	52.9 55.1 57.3	271.7 272.7 273.7	267.9 269.2 270.5	0 30 0 40 0 50	85.8 86.8 87.7	89.0 90.3 91.5	57.4 55.1 52.9	57.2 55.0 52.9	1.1	168	
778	4.5	56.9 59.2 61.5	56.9 59.1 61.2	272.1 273.1 274.1	268.9 270.1 271.4	0 43 0 53 1 3	85.5 86.5 87.4	88.3 89.5 90.7	61.3 59.1 56.8	61.0 58.9 56.7	4.7	1140	
804	4.3	50.5 52.8 55.0	50.2 52.4 54.6	275.6 276.5 277.4	271.5 272.7 273.9	1 0 1 10 1 20	80.2 81.0 81.8	83.7 84.8 85.9	55.2 53.0 50.7	54.5 52.3 50.2	4.7	184	
804	4.3	54.6 56.8 59.1	54.1 56.3 58.4	277.2 278.1 278.9	273.6 274.8 275.9	1 18 1 28 1 38	79.4 80.2 81.0	82.4 83.5 84.6	59.0 56.8 54.6	58.2 56.1 53.9	3.0	211	
871	2.6	40.8 43.0 45.3	41.5 43.7 45.8	264.2 265.5 266.7	258.6 260.3 261.8	1 53 2 3 2 13	92.8 94.0 95.2	97.6 99.2 100.9	45.5 43.2 41.0	45.9 43.8 41.7	4.7	1140	
855	3.6	52.9 55.1 57.4	53.5 55.7 57.8	264.5 265.7 266.9	260.8 262.3 263.7	2 16 2 26 2 36	91.0 92.1 93.2	94.2 95.5 96.9	57.7 55.4 53.1	57.9 55.7 53.6	5.1	1165	
1603	4.7	50.4 52.7 54.9	51.4 53.5 55.6	261.1 262.4 263.7	257.1 258.7 260.3	2 28 2 38 2 48	92.3 93.5 94.6	95.8 97.2 98.7	54.9 52.7 50.4	55.3 53.1 51.0	5.1	1169	
871	2.6	51.2 53.5 55.7	51.4 53.6 55.7	269.6 270.7 271.7	265.6 267.0 268.3	2 39 2 49 2 59	86.6 87.5 88.5	90.0 91.2 92.5	55.8 53.5 51.3	55.6 53.5 51.3	1.9	251	
885	4.7	50.4 52.7 54.9	50.9 53.1 55.2	265.9 267.0 268.2	261.8 263.3 264.7	3 56 3 6 3 16	91.5 92.6 93.8	95.0 96.4 97.9	54.9 52.6 50.4	55.2 53.0 50.9	3.4	256	
1004	4.0	40.0 42.2 44.5	40.0 42.2 44.4	271.0 272.9 273.8	266.0 267.4 268.7	3 6 3 16 3 26	82.6 83.3 84.1	87.7 88.8 90.1	44.6 42.4 40.1	44.2 42.1 39.9	3.2	241	
898	5.2	47.5 49.8 52.0	47.4 49.6 51.7	273.5 274.4 275.3	268.9 270.1 271.4	3 16 3 26 3 36	82.6 83.4 84.3	86.5 87.7 88.8	52.1 49.9 47.6	51.6 49.5 47.3	3.9	269	
1004	4.0	44.9 47.2 49.4	44.8 47.0 49.1	274.0 274.9 275.7	269.9 270.2 271.4	3 28 3 38 3 48	83.6 84.4 85.3	87.9 89.1 90.3	49.4 47.2 44.9	49.0 46.9 44.7	3.9	269	
27	4.3	40.2 42.5 44.7	39.7 41.9 44.1	278.5 279.2 279.8	272.6 273.7 274.8	3 44 3 54 4 4	80.1 80.7 81.4	85.2 86.3 87.4	44.6 42.3 40.1	43.9 41.8 39.6	5.2	1182	
898	5.2	57.4 59.7 61.9	56.9 59.1 61.2	277.4 278.3 279.1	274.2 275.3 276.4	4 0 4 10 4 20	79.0 79.8 80.7	81.7 82.7 83.8	62.1 59.9 57.7	61.3 59.1 57.0	5.5	321	
50	3.7	39.0 41.3 43.5	39.8 42.0 44.1	263.4 264.7 266.0	257.4 259.2 260.8	4 12 4 22 4 32	91.8 92.9 94.2	97.0 98.5 100.2	43.8 41.6 39.3	44.2 42.1 39.9	3.7	277	
1020	5.2	53.3 55.6 57.8	53.2 55.4 57.5	272.9 273.9 274.8	269.2 270.4 271.7	4 35 4 45 4 55	83.5 84.4 85.3	86.7 87.8 89.1	57.7 55.4 53.2	57.3 55.1 52.9	4.2	326	
1032	4.9	49.5 51.7 54.0	49.1 51.2 53.4	276.9 277.7 278.5	272.6 273.7 274.9	4 46 4 56 5 6	80.7 81.5 82.3	84.4 85.5 86.6	53.9 51.7 49.4	53.3 51.1 49.0	4.7	1228	
1032	4.9	52.2 54.4 56.7	51.7 53.8 56.0	277.9 278.7 279.5	274.0 275.1 276.2	4 58 5 8 5 18	78.9 79.7 80.5	82.2 83.3 84.3	56.9 54.7 52.4	56.1 53.9 51.8	5.2	1239	
60	4.5	50.9 53.1 55.4	51.8 54.0 56.1	261.1 262.4 263.6	257.1 258.7 260.3	5 8 5 18 5 28	92.5 93.6 94.8	95.9 97.3 98.8	55.5 53.3 51.0	55.9 53.8 51.6	4.3	337	
66	2.7	47.5 49.7 52.0	47.2 49.3 51.5	275.8 276.7 277.5	271.2 272.4 273.6	5 20 5 30 5 40	80.6 81.4 82.2	84.5 85.6 86.8	52.0 49.8 47.5	51.3 49.2 47.0	5.2	1239	

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 25 LAT 30	LAT 25 LAT 30	LAT 25 LAT 30	HRS MIN	LAT 25 LAT 30	LAT 25 LAT 30	Z. D.	LAT 25 LAT 30			
60	4.5	56.1	56.7	264.0	260.7	5 31	92.4	95.2	60.8	61.1	3.8	365	
		58.3	58.9	265.2	262.2	5 41	93.5	96.6	58.5	58.9			
		60.6	61.0	266.4	263.6	5 51	94.7	98.0	56.2	56.8			
1058	4.5	53.1	54.0	262.0	258.3	5 45	94.0	97.1	57.6	58.1	3.8	365	
		55.4	56.1	263.2	259.9	5 55	95.2	98.6	55.3	55.9			
		57.6	58.2	264.4	261.3	6 5	96.4	100.1	53.1	53.8			
114	4.5	39.0	39.2	270.8	264.6	5 58	83.6	88.9	43.5	43.1	5.2	1239	
		41.2	41.3	271.8	266.1	6 8	84.4	90.1	41.2	41.0			
		43.5	43.5	272.7	267.4	6 18	85.2	91.4	39.0	38.8			
58	4.4	51.9	52.7	263.0	259.2	6 14	91.9	95.2	56.4	56.7	1.3	380	
		54.2	54.8	264.3	260.8	6 24	93.0	96.6	54.1	54.5			
		56.5	57.0	265.5	262.2	6 34	94.2	98.1	51.9	52.4			
1083	4.7	53.8	54.6	262.5	259.9	6 35	94.4	97.5	58.2	58.7	3.9	396	
		56.1	56.8	263.7	260.4	6 45	95.6	98.9	55.9	56.6			
		58.3	58.9	264.9	261.9	6 55	96.8	100.4	53.7	54.4			
1089	5.1	48.7	48.3	276.7	272.3	6 46	78.6	82.3	53.5	52.7	5.1	405	
		51.0	50.5	277.5	273.4	6 56	79.3	83.3	51.3	50.5			
		53.2	52.6	278.3	274.5	7 6	80.0	84.4	49.0	48.4			
1112	4.5	40.2	40.0	275.1	269.2	6 59	81.1	86.2	44.6	44.0	3.7	384	
		42.4	42.1	275.9	270.4	7 9	81.8	87.4	42.3	41.9			
		44.7	44.3	276.7	271.6	7 19	82.5	88.5	40.1	39.7			
125	4.3	52.9	53.3	267.4	263.7	7 5	86.9	90.1	57.6	57.5	3.4	423	
		55.2	55.4	268.6	265.1	7 19	87.9	91.3	55.3	55.3			
		57.4	57.6	269.6	266.5	7 29	89.0	92.7	53.1	53.1			
125	4.3	57.0	57.2	269.4	266.2	7 27	86.2	88.9	61.7	61.5	2.2	444	
		59.2	59.3	270.5	267.5	7 37	87.2	90.1	59.4	59.3			
		61.5	61.5	271.5	268.8	7 47	88.2	91.4	57.2	57.2			
164	3.6	44.5	44.6	272.4	267.3	7 35	87.6	88.0	49.2	48.8	2.6	422	
		46.8	46.7	273.3	268.6	7 49	88.5	89.2	47.0	46.7			
		49.1	48.9	274.3	269.9	7 59	89.3	90.4	44.7	44.5			
162	3.9	49.3	49.3	272.1	267.8	7 52	82.2	85.9	54.0	53.5	4.5	1304	
		51.5	51.4	273.0	269.1	8 2	83.1	87.0	51.7	51.3			
		53.8	53.6	274.0	270.3	8 12	83.9	88.2	49.5	49.2			
1125	4.8	50.2	50.5	268.7	264.6	8 3	87.9	91.4	54.7	54.7	5.5	1308	
		52.4	52.6	269.8	266.0	8 13	88.9	92.7	52.4	52.5			
		54.7	54.8	270.9	267.3	8 23	89.9	94.1	50.2	50.3			
159	3.9	55.6	55.5	272.3	268.8	8 14	82.2	85.1	60.2	59.7	5.2	473	
		57.8	57.7	273.3	270.1	8 24	83.1	86.2	58.0	57.5			
		60.1	59.9	274.2	271.3	8 34	83.9	87.4	55.7	55.3			
1148	5.3	42.1	42.3	269.5	264.0	8 25	85.1	89.8	46.6	46.3	4.5	1304	
		44.3	44.5	270.5	265.4	8 35	85.9	91.1	44.3	44.2			
		46.6	46.7	271.5	266.8	8 45	86.8	92.4	42.1	42.0			
184	4.7	49.2	48.7	277.7	273.3	8 37	79.2	82.9	53.3	53.0	4.8	1323	
		51.4	50.9	278.4	274.4	8 47	80.0	84.0	51.5	50.8			
		53.7	53.0	279.2	275.5	8 57	80.7	85.0	49.3	48.7			
1149	5.3	47.7	47.7	272.0	267.5	8 50	85.4	89.3	52.1	51.9	5.2	473	
		50.0	49.9	273.0	268.8	9 0	86.3	90.5	49.8	49.7			
		52.2	52.1	273.9	270.1	9 10	87.3	91.8	47.6	47.5			
208	4.5	52.6	53.4	262.7	259.0	9 6	82.8	96.0	57.2	57.6	3.0	488	
		54.9	55.6	263.9	260.5	9 16	83.9	97.4	54.9	55.4			
		57.2	57.7	265.1	262.0	9 26	85.1	98.9	52.7	53.3			
241	3.2	40.2	40.0	275.9	270.0	9 18	82.3	87.4	44.6	44.1	4.8	1323	
		42.5	42.1	276.7	271.2	9 28	83.0	88.5	42.3	42.0			
		44.7	44.3	277.5	272.4	9 38	83.8	89.7	40.1	39.8			
1148	5.3	56.5	56.2	275.7	272.4	9 29	81.8	84.5	61.2	60.6	2.8	513	
		58.8	58.3	276.6	273.6	9 39	82.6	85.7	59.0	58.5			
		61.0	60.5	277.5	274.7	9 49	83.5	86.8	56.7	56.3			
218	5.5	54.3	54.0	274.5	270.9	9 39	82.6	85.7	59.0	58.5	2.8	513	
		56.5	56.2	275.4	272.1	9 49	83.5	86.8	56.7	56.3			
		58.8	58.4	276.3	273.3	9 59	84.4	88.0	54.5	54.2			
219	5.5	56.5	56.2	275.4	272.1	9 49	80.8	83.6	61.2	60.5	0.2	526	
		58.8	58.4	276.3	273.3	9 59	81.7	84.7	59.0	58.4			
		61.0	60.5	277.2	274.4	10 9	82.5	85.8	56.7	56.2			
251	1.9	48.8	48.9	270.3	266.0	10 3	84.8	88.5	53.6	53.3	2.8	513	
		51.0	51.1	271.4	267.3	10 13	85.7	89.7	51.3	51.1			
		53.3	53.2	272.4	268.6	10 23	86.6	91.0	49.1	49.0			
251	1.9	51.0	51.1	271.4	267.3	10 13	82.9	86.3	55.8	55.4	0.2	526	
		53.3	53.2	272.4	268.6	10 23	83.8	87.5	53.6	53.2			
		55.5	55.4	273.3	269.9	10 33	84.6	88.7	51.3	51.0			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 25 LAT 30	LAT 25 LAT 30	LAT 25 LAT 30	HRS MIN	LAT 25 LAT 30	LAT 25 LAT 30	Z. D.	LAT 25 LAT 30			
277	3.7	44.3	44.7	268.5	263.4	10 24	86.7	91.1	48.8	48.7	2.8	513	
		46.6	46.8	269.5	264.8	10 34	87.7	92.4	46.6	46.6			
		48.8	49.0	270.6	266.2	10 44	88.7	93.8	44.3	44.4			
277	3.7	47.7	47.9	270.1	265.5	10 39	84.2	88.0	52.4	52.1	5.4	1378	
		50.0	50.1	271.1	266.9	10 49	85.1	89.3	50.1	49.9			
		52.2	52.2	272.1	268.2	10 59	86.0	90.5	47.9	47.7			
1200	5.0	44.4	44.5	271.5	266.4	10 55	85.6	90.0	48.8	48.6	5.4	1378	
		46.6	46.6	272.4	267.7	11 5	86.5	91.3	46.5	46.4			
		48.9	48.8	273.4	269.0	11 15	87.5	92.6	44.3	44.3			
277	3.7	57.2	57.0	274.2	271.0	11 21	81.9	84.6	61.8	61.2	4.3	584	
		59.5	59.1	275.2	272.2	11 31	82.8	85.7	59.6	59.1			
		61.7	61.3	276.1	273.4	11 41	83.7	86.9	57.3	56.9			
1200	5.0	57.2	56.8	276.8	273.5	11 52	80.6	83.3	62.0	61.3	3.8	609	
		59.5	59.0	277.6	274.7	12 2	81.5	84.4	59.7	59.1			
		61.7	61.1	278.5	275.8	12 12	82.3	85.6	57.5	57.0			
326	4.2	50.9	50.7	273.8	269.7	12 22	83.2	86.7	55.2	54.8	3.8	609	
		53.2	52.9	274.7	270.9	12 32	84.1	87.9	53.0	52.6			
		55.4	55.1	275.6	272.1	12 42	85.0	89.1	50.7	50.5			
379	3.6	38.0	38.7	265.6	259.3	12 46	89.9	95.3	42.6	42.8	4.3	584	
		40.3	40.8	266.8	261.0	12 56	90.9	96.8	40.4	40.7			
		42.6	43.0	268.0	262.6	13 6	92.1	98.4	38.1	38.5			
379	3.6	40.5	41.0	267.0	261.2	12 57	90.5	95.5	44.8	45.1	5.3	1421	
		42.8	43.2	268.1	262.8	13 7	91.6	97.0	42.6	43.0			
		45.1	45.3	269.2	264.3	13 17	92.8	98.6	40.3	40.8			
365	3.8	51.9	52.7	263.0	259.1	13 10	91.0	94.3	56.4	56.6	4.9	635	
		54.2	54.8	264.2	260.7	13 20	92.1	95.7	54.1	54.4			
		56.4	57.0	265.4	262.1	13 30	93.2	97.1	51.8	52.3			
1246	5.1	55.9	56.3	267.0	263.6	13 21	89.2	92.0	60.7	60.7	2.1	656	
		58.2	58.5	268.1	265.0	13 31	90.3	93.4	58.4	58.5			
		60.4	60.6	269.2	266.4	13 41	91.4	94.7	56.1	56.4			
379	3.6	48.5	48.6	270.8	266.4	13 32	85.6	89.4	53.0	52.8	5.2	1454	
		50.7	50.7	271.8	267.7	13 42	86.5	90.6	50.7	50.6			
		53.0	52.9	272.8	269.0	13 52	87.5	91.9	48.5	48.4			
475	5.1	42.0	41.5	277.7	272.1	13 47	79.6	83.3	46.7	45.9	3.2	641	
		44.2	43.7	278.4	273.2	13 57	79.2	84.3	44.4	43.7			
		46.4	45.9	279.1	274.4	14 7	79.8	85.4	42.2	41.6			
356	3.9	53.8	54.5	263.2	259.7	14 9	94.2	97.2	58.3	58.8	3.7	680	
		56.0	56.7	264.5	261.2	14 19	95.4	98.7	56.0	56.6			
		58.3	58.8	265.6	262.6	14 29	96.6	100.2	53.8	54.5			
423	3.4	45.7	46.2	267.6	262.8	14 25	88.5	92.6	50.4	50.4	4.7	1465	
		48.0	48.3	268.7	264.3	14 35	89.5	94.0	48.1	48.3			
		50.3	50.5	269.8	265.7	14 45	90.5	95.4	45.9	46.1			
422	2.6	46.9	46.7	275.5	270.8	14 37	81.3	85.2	51.6	51.0	3.9	690	
		49.2	48.8	276.4	272.0	14 47	82.0	86.4	49.3	48.8			
		51.4	51.0	277.2	273.2	14 57	82.8	87.5	47.1	46.6			
423	3.4	50.7	50.9	270.0	265.9	14 47	84.4	87.9	55.6	55.3	4.4	1451	
		53.0	53.1	271.1	267.3	14 57	85.3	89.1	53.3	53.1			
		55.2	55.2	272.1	268.6	15 7	86.3	90.3	51.1	50.9			
1304	4.5	45.9	45.7	274.7	269.8	15 6	83.4	87.5	50.3	49.9	4.3	703	
		48.2	47.9	275.6	271.1	15 16	84.2	88.7	48.1	47.7			
		50.4	50.0	276.4	272.3	15 26	85.1	89.9	45.8	45.6			
423	3.4	57.5	57.4	273.1	269.9	15 17	81.4	84.0	62.3	61.7	3.8	743	
		59.8	59.5	274.0	271.1	15 27	82.2	85.1	60.1	59.5			
		62.0	61.7	275.0	272.3	15 37	83.1	86.3	57.8	57.4			
450	4.2	51.0	52.0	260.8	256.9	15 28	93.0	96.4	55.6	56.0	5.1	725	
		53.3	54.1	262.2	259.5	15 38	94.1	97.8	53.3	53.8			
		55.5	56.2	263.4	260.1	15 48	95.3	99.3	51.0	51.7			
1308	5.5	52.8	52.9	271.3	267.5	15 38	83.2	86.4	57.6	57.1	3.8	743	
		55.1	55.0	272.3	268.8	15 48	84.1	87.6	55.3	55.0			
		57.3	57.2	273.3	270.0	15 58	85.0	88.8	53.1	52.8			
1323	4.8	44.7	44.2	277.8	272.7	15 50	78.2	82.6	49.1	48.3	4.6	1508	
		46.9	46.4	278.5	273.8	16 0	78.9	83.6	46.9	46.1			
		49.1	48.5	279.2	274.9	16 10	79.5	84.6	44.6	43.9			
1326	5.0	50.0	50.9	262.4	258.3	16 3	94.8	98.4	54.5	55.0	2.8	741	
		52.3	53.0	263.7	259.9	16 13	96.1	99.9	52.2	52.9			
		54.5	55.1	264.9	261.4	16 23	97.3	101.4	50.0	50.8			
1326	5.0	55.2	55.8	265.2	261.8	16 26	91.4	94.3	59.6	59.9	4.0	768	
		57.5	57.9	266.4	263.3	16 36	92.5	95.7	57.4	57.7			
		59.7	60.1	267.5	264.6	16 46	93.6	97.1	55.1	55.6			

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.				HRS	MIN			Z.D.			
		LAT 25	LAT 30	LAT 25	LAT 30			LAT 25	LAT 30	LAT 25	LAT 30		
488	3.0	52.8	53.4	265.0	261.2	16	37	92.6	95.8	57.1	57.5	4.0	768
		55.1	55.6	266.1	262.7	16	47	93.7	97.2	54.9	55.4		
		57.3	57.7	267.3	264.1	16	57	94.9	98.7	52.6	53.2		
1349	5.2	49.0	49.4	266.9	262.6	16	51	88.2	91.9	53.8	53.8	3.9	774
		51.2	51.6	268.0	264.0	17	1	89.2	93.2	51.5	51.6		
		53.5	53.7	269.1	265.4	17	11	90.3	94.5	49.2	49.4		
513	2.8	44.4	44.5	271.4	266.3	17	4	83.0	87.4	49.0	48.6	4.8	1539
		46.7	46.7	272.4	267.7	17	14	83.8	88.6	46.7	46.4		
		49.0	48.9	273.3	269.0	17	24	84.7	89.8	44.5	44.2		
1372	5.3	43.4	44.3	262.6	257.5	17	16	90.8	95.3	48.1	48.4	3.9	774
		45.7	46.4	263.9	259.1	17	26	91.9	96.7	45.8	46.2		
		47.9	48.6	265.2	260.7	17	36	93.1	98.2	43.6	44.1		
513	2.8	49.4	49.3	273.5	269.2	17	26	82.9	86.6	54.2	53.8	4.3	804
		51.7	51.5	274.5	270.5	17	36	83.8	87.7	52.0	51.6		
		53.9	53.6	275.4	271.7	17	46	84.7	88.9	49.7	49.4		
1378	5.4	45.8	45.8	273.2	268.3	17	43	84.4	88.6	50.4	50.1	4.3	804
		48.1	47.9	274.1	269.6	17	53	85.3	89.8	48.1	47.9		
		50.4	50.1	275.0	270.9	18	3	86.2	91.1	45.9	45.8		
584	4.3	38.6	39.0	268.2	262.3	18	32	88.1	93.5	43.0	43.1	5.3	1570
		40.9	41.2	269.3	263.6	18	42	89.1	94.9	40.7	40.9		
		43.1	43.3	270.4	265.1	18	52	90.2	96.4	38.5	38.8		
618	2.8	40.8	40.6	274.6	268.7	19	27	79.4	84.3	45.6	44.9	3.7	862
		43.0	42.8	275.4	270.0	19	37	80.1	85.4	43.4	42.7		
		45.3	45.0	276.2	271.2	19	47	80.7	86.5	41.1	40.6		
584	4.3	53.8	53.5	274.9	271.2	19	39	82.3	85.4	58.3	57.8	5.2	899
		56.0	55.7	275.8	272.4	19	49	83.1	86.5	56.1	55.6		
		58.3	57.8	276.7	273.6	19	59	84.0	87.7	53.8	53.5		
584	4.3	56.0	55.7	275.8	272.4	19	49	80.0	82.9	60.7	59.9	4.9	1004
		58.3	57.8	276.7	273.6	19	59	80.9	84.0	58.5	57.8		
		60.5	60.0	277.6	274.9	20	9	81.7	85.1	56.2	55.6		
613	4.5	53.2	53.4	269.2	265.5	20	7	87.3	90.4	58.0	57.9	2.9	7
		55.5	55.6	270.3	266.8	20	17	88.3	91.7	55.7	55.7		
		57.7	57.7	271.3	268.2	20	27	89.3	93.0	53.5	53.6		
613	4.5	57.0	57.1	271.0	267.9	20	24	83.6	86.3	61.6	61.2	5.2	1020
		59.3	59.3	272.0	269.1	20	34	84.5	87.5	59.4	59.0		
		61.6	61.4	273.0	270.3	20	44	85.5	88.7	57.1	56.8		
656	2.1	45.7	46.5	263.2	258.4	20	41	80.8	95.0	50.3	50.5	2.9	7
		48.0	49.7	264.4	260.0	20	51	81.9	96.4	48.0	48.4		
		50.2	50.8	265.7	261.6	21	1	83.1	97.9	45.8	46.2		
1454	5.2	52.1	51.9	274.1	270.2	21	3	80.5	83.8	56.6	55.9	4.9	1032
		54.4	54.1	275.0	271.4	21	13	81.3	84.9	54.4	53.8		
		56.6	56.2	275.9	272.6	21	23	82.1	86.1	52.1	51.6		
1469	4.7	45.8	46.0	269.4	264.6	21	13	88.3	92.4	50.5	50.6	5.2	1020
		48.1	48.2	270.5	266.0	21	23	89.3	93.7	48.3	48.4		
		50.3	50.4	271.5	267.4	21	33	90.3	95.2	46.0	46.2		
690	3.9	41.3	41.1	275.1	269.4	21	23	79.8	84.7	45.9	45.3	4.3	27
		43.5	43.3	275.9	270.6	21	33	80.5	85.7	43.7	43.1		
		45.8	45.4	276.7	271.8	21	43	81.1	86.8	41.5	40.9		
703	4.3	42.0	42.0	273.5	267.9	21	47	84.1	88.9	46.7	46.4	4.9	1032
		44.3	44.2	274.4	269.2	21	57	85.0	90.1	44.5	44.3		
		46.6	46.3	275.2	270.5	22	7	85.8	91.4	42.2	42.1		
716	3.0	44.0	44.7	264.1	259.0	22	6	91.4	95.7	48.7	49.0	3.7	50
		46.3	46.9	265.4	260.7	22	16	92.5	97.2	46.4	46.8		
		48.5	49.0	266.6	262.2	22	26	93.7	98.7	44.2	44.7		
763	4.3	51.7	51.3	277.2	273.2	22	30	79.4	82.7	56.4	55.6	5.4	89
		54.0	53.5	278.0	274.4	22	40	80.2	83.8	54.2	53.5		
		56.2	55.6	278.8	275.5	22	50	81.0	84.9	51.9	51.3		
752	3.7	39.9	39.2	270.4	264.2	22	45	85.7	91.0	43.4	43.3	2.7	66
		41.2	41.3	271.4	265.7	22	55	86.6	92.3	41.2	41.1		
		43.5	43.5	272.4	267.1	23	5	87.5	93.7	38.9	39.0		
752	3.7	43.7	43.7	272.5	267.2	23	6	82.2	86.7	48.4	47.9	5.4	89
		45.9	45.9	273.4	268.6	23	16	83.0	87.8	46.1	45.7		
		48.2	48.0	274.3	269.9	23	26	83.8	89.0	43.9	43.5		
743	3.8	49.3	49.1	273.4	269.1	23	18	83.3	87.0	53.6	53.2	4.5	114
		51.5	51.3	274.4	270.4	23	28	84.1	88.1	51.4	51.0		
		53.8	53.5	275.3	271.6	23	38	85.0	89.3	49.1	48.9		
752	3.7	48.7	48.5	274.5	270.1	23	28	81.6	85.4	53.1	52.6	5.2	1094
		50.9	50.6	275.4	271.3	23	38	82.4	86.5	50.9	50.4		
		53.2	52.8	276.3	272.5	23	48	83.2	87.6	48.6	48.2		

CATNO	MAG	WEST STAR				AZ				LST				EAST STAR				MAG	CATNO
		Z.D.		AZ		LST		AZ		Z.D.									
		LAT 25	LAT 30	LAT 25	LAT 30	HRS MIN	LAT 25	LAT 30	LAT 25	LAT 30	LAT 25	LAT 30							
741	2.8	57.5	57.9	266.7	263.6	23	41	68.8	91.5	62.0	62.0	4.0	150						
		59.8	60.1	267.8	264.9	23	51	89.8	92.8	59.7	59.8								
		62.0	62.2	268.9	266.3	24	1	90.9	94.1	57.4	57.7								

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 30 LAT 35	LAT 30 LAT 35	LAT 30 LAT 35	HRS MIN	LAT 30 LAT 35	LAT 30 LAT 35	LAT 30 LAT 35	Z. D.	LAT 30 LAT 35		
1539	4.8	45.7 47.9 50.0	45.8 47.9 49.9	271.0 272.2 273.4	266.2 267.7 269.2	23 58 0 8 0 18	82.5 83.5 84.5	86.7 88.0 89.4	50.1 48.0 45.6	49.6 47.6 45.6	3.8	136	
1539	4.8	45.9 48.1 50.2	46.0 48.1 50.1	271.2 272.3 273.5	266.3 267.9 269.3	23 59 0 9 0 19	82.3 83.3 84.4	86.5 87.8 89.2	50.5 48.3 46.2	50.0 47.9 45.9	3.0	139	
1539	4.8	46.1 48.3 50.5	46.2 49.3 50.3	271.3 272.5 273.6	266.5 268.0 269.5	0 0 0 10 0 20	82.3 83.3 84.4	86.4 87.8 89.2	50.6 48.5 46.3	50.1 48.1 46.0	3.8	142	
1539	4.8	48.3 50.5 52.6	48.3 50.3 52.4	272.5 273.6 274.7	268.0 269.5 270.9	0 10 0 20 0 30	84.1 85.2 86.3	87.9 89.3 90.8	52.5 50.4 48.2	52.2 50.1 48.1	4.5	1112	
778	4.5	51.9 54.1 56.2	52.5 54.5 56.5	265.8 267.2 268.5	262.0 263.6 265.2	0 20 0 30 0 40	90.7 92.0 93.3	94.1 95.6 97.2	56.2 54.1 51.9	56.5 54.4 52.4	3.9	156	
1541	4.5	52.9 55.1 57.3	53.3 55.3 57.4	267.9 269.2 270.5	264.2 265.7 267.3	0 30 0 40 0 50	89.0 90.3 91.5	92.2 93.7 95.3	57.2 55.0 52.9	57.2 55.2 53.2	1.1	168	
778	4.5	56.9 59.1 61.2	57.1 59.2 61.2	269.9 270.1 271.4	265.6 267.1 268.6	0 43 0 53 1 3	88.3 89.5 90.7	91.0 92.5 94.0	61.0 58.9 56.7	61.0 59.0 56.9	4.7	1140	
804	4.3	50.2 52.4 54.6	50.3 52.3 54.4	271.5 272.7 273.9	267.4 268.9 270.3	1 0 1 10 1 20	83.7 84.8 85.9	87.3 88.7 90.1	54.5 52.3 50.2	54.1 52.1 50.0	4.7	184	
804	4.3	53.9 56.1 58.2	53.8 55.8 57.9	273.5 274.7 275.8	269.9 271.3 272.7	1 17 1 27 1 37	82.3 83.4 84.5	85.4 86.7 88.1	58.4 56.3 54.1	57.9 55.9 53.8	3.0	211	
843	4.9	53.7 55.8 58.0	54.5 56.5 58.5	262.9 264.2 265.7	259.3 261.0 262.6	2 0 2 10 2 20	90.6 91.9 93.2	93.7 95.2 96.8	58.3 56.1 54.0	58.5 56.4 54.4	4.4	232	
855	3.6	53.5 55.7 57.8	54.5 56.5 58.5	260.8 262.3 263.7	257.2 259.0 260.6	2 16 2 26 2 36	94.2 95.5 96.9	97.2 98.9 100.5	57.9 55.7 53.6	58.4 56.4 54.3	5.1	1165	
855	3.6	56.5 58.7 60.8	57.3 59.3 61.3	262.9 264.3 265.6	259.6 261.3 262.9	2 30 2 40 2 50	91.5 92.8 94.2	94.3 95.9 97.4	60.8 58.6 56.5	61.1 59.0 57.0	3.4	256	
859	4.1	52.9 55.0 57.1	52.3 54.4 56.4	278.0 279.0 280.0	274.2 275.5 276.8	2 43 2 53 3 3	79.0 80.0 81.0	82.3 83.5 84.8	57.0 54.9 52.7	58.2 56.2 54.1	5.2	1182	
859	5.2	43.5 45.7 47.8	44.1 46.1 48.1	266.5 267.8 269.1	261.3 263.0 264.6	2 58 3 8 3 18	89.0 90.2 91.5	93.5 95.0 96.7	48.1 45.9 43.7	48.2 46.1 44.1	4.1	1173	
1029	4.8	42.8 45.0 47.1	42.6 44.6 46.7	275.5 276.5 277.5	270.1 271.5 272.8	3 10 3 20 3 30	82.4 83.4 84.4	87.1 88.4 89.8	47.0 44.8 42.7	46.5 44.5 42.4	3.2	254	
881	4.6	53.2 55.3 57.4	52.6 54.7 56.7	277.9 279.0 280.0	274.2 275.5 276.8	3 23 3 33 3 43	78.6 79.6 80.6	81.8 83.1 84.3	57.4 55.2 53.1	56.5 54.5 52.4	3.7	294	
1004	4.9	46.1 48.3 50.4	46.3 48.4 50.4	269.7 271.7 272.2	264.9 266.5 269.0	3 34 3 44 3 54	85.0 86.1 87.3	89.1 90.6 92.0	50.7 48.5 46.4	50.4 48.4 46.3	3.5	279	
27	4.3	39.7 41.9 44.1	39.9 41.8 43.9	272.6 273.7 274.9	266.6 268.1 269.6	3 44 3 54 4 4	85.2 86.3 87.4	90.4 91.9 93.4	43.9 41.8 39.6	43.7 41.7 39.6	5.2	1192	
27	4.3	42.8 44.9 47.1	42.6 44.7 46.7	278.1 279.2 276.2	268.7 270.2 271.6	3 58 4 8 4 19	79.7 80.6 81.5	84.3 85.6 86.9	47.3 45.1 43.0	46.6 44.5 42.5	4.2	1196	
1004	4.9	55.2 57.3 59.5	54.9 57.0 59.0	274.7 275.8 276.9	271.2 272.6 273.9	4 16 4 26 4 36	81.2 82.2 83.3	84.1 85.4 86.7	59.7 57.6 55.4	59.1 57.0 55.0	4.7	1228	
45	4.7	41.9 44.0 46.1	41.4 43.4 45.5	278.4 279.3 280.1	272.9 274.1 275.3	4 30 4 40 4 50	78.9 79.7 80.6	83.7 84.9 86.2	46.1 44.0 41.8	45.3 43.3 41.2	5.0	305	
1032	4.9	49.1 51.2 53.4	49.0 51.1 53.1	272.6 273.7 274.9	268.3 269.7 271.1	4 46 4 56 5 6	84.4 85.5 86.6	88.1 89.5 91.0	53.3 51.1 49.0	52.9 50.9 48.8	4.7	1228	
1032	4.9	51.7 53.8 56.0	51.5 53.5 55.6	274.0 275.1 276.2	270.0 271.4 272.8	4 58 5 8 5 18	82.2 83.3 84.3	85.6 86.9 88.3	56.1 53.9 51.8	55.5 53.5 51.5	5.2	1235	

CATNO	MAG	WEST STAR Z. D.		AZ		LST HRS MIN	AZ		EAST STAR Z. D.		MAG	CATNO
		LAT 30	LAT 35	LAT 30	LAT 35		LAT 30	LAT 35	LAT 30	LAT 35		
1032	4.9	55.3	55.0	275.9	272.4	5 15	78.3	81.2	59.6	56.7	3.1	367
		57.5	57.0	277.0	273.8	5 25	79.3	82.5	57.5	56.7		
		59.6	59.1	278.0	275.1	5 35	80.3	83.8	55.3	54.6		
74	2.2	46.1	45.9	274.6	269.8	5 32	79.2	83.3	50.6	45.9	4.6	1244
		48.3	48.0	275.7	271.2	5 42	80.1	84.6	48.5	47.8		
		50.4	50.0	276.7	272.6	5 52	81.0	85.8	46.4	45.8		
74	2.2	48.9	48.6	276.0	271.6	5 45	81.3	85.0	53.2	52.6	3.1	367
		51.1	50.6	277.0	273.0	5 55	82.3	86.4	51.0	50.6		
		53.2	52.7	278.1	274.3	6 5	83.3	87.7	48.9	48.5		
74	2.2	52.3	51.9	277.6	273.8	6 1	80.2	83.5	56.5	55.8	3.7	384
		54.5	53.9	278.7	275.1	6 11	81.2	84.8	54.4	53.7		
		56.6	55.9	279.7	276.4	6 21	82.2	86.1	52.2	51.7		
1089	5.1	41.8	42.2	268.5	263.0	6 16	84.5	89.2	46.5	46.3	3.1	367
		44.0	44.2	269.8	264.7	6 26	85.5	90.7	44.4	44.2		
		46.2	46.3	271.1	266.3	6 36	86.6	92.1	42.2	42.2		
1089	5.1	45.2	45.5	270.6	265.6	6 32	83.4	87.6	49.9	49.5	3.7	384
		47.5	47.5	271.8	267.2	6 42	84.4	89.0	47.7	47.4		
		49.6	49.6	273.0	268.7	6 52	85.5	90.4	45.5	45.4		
1089	5.1	49.3	49.3	272.3	267.8	6 46	82.3	86.1	52.7	52.2	5.1	405
		50.5	50.4	273.4	269.3	6 56	83.3	87.5	50.5	50.1		
		52.6	52.4	274.5	270.7	7 6	84.4	89.9	48.4	48.1		
1112	4.5	70.3	40.1	269.0	263.1	6 58	86.1	91.3	44.2	44.1	3.7	384
		41.0	42.1	270.3	264.8	7 8	87.2	92.8	42.1	42.1		
		44.1	44.2	271.5	266.4	7 18	88.4	94.4	39.9	40.0		
125	4.3	53.1	53.8	263.6	259.9	7 8	90.0	93.1	57.7	57.8	3.4	423
		55.2	55.8	265.0	261.5	7 18	91.2	94.6	55.5	55.8		
		57.4	57.8	266.3	263.2	7 28	92.5	96.2	53.4	53.7		
114	4.5	56.5	56.2	274.8	271.4	7 18	82.1	84.9	60.8	60.2	4.5	1304
		58.6	58.2	275.9	272.8	7 28	83.2	86.3	58.6	58.2		
		60.8	60.3	277.0	274.2	7 38	84.3	87.6	56.5	56.1		
125	4.3	57.6	58.0	266.5	263.3	7 29	87.2	89.9	62.0	61.9	5.5	1308
		59.8	60.1	267.8	264.9	7 39	88.4	91.3	59.8	59.8		
		61.9	62.1	269.1	266.4	7 49	89.7	92.8	57.7	57.8		
164	3.5	44.6	45.0	267.3	262.3	7 39	88.0	92.3	48.8	48.9	2.6	422
		46.7	47.0	268.6	264.7	7 49	89.2	93.9	46.7	46.8		
		48.9	49.1	269.9	265.6	7 59	90.4	95.5	44.5	44.8		
162	3.9	49.1	49.4	267.6	263.3	7 51	85.8	89.5	53.7	53.5	4.5	1304
		51.2	51.5	268.9	264.9	8 1	86.9	90.9	51.5	51.4		
		53.4	53.5	270.2	266.5	8 11	88.1	92.4	49.4	49.4		
1125	4.8	50.5	51.1	264.6	260.6	8 3	91.4	95.0	54.7	54.9	5.5	1308
		52.6	53.1	266.0	262.2	8 13	92.7	96.5	52.5	52.9		
		54.8	55.2	267.3	263.8	8 23	94.1	98.2	50.3	50.9		
159	3.9	55.3	55.6	268.7	265.3	8 13	88.9	87.9	59.9	59.6	5.2	473
		57.5	57.6	270.0	266.8	8 23	86.1	85.3	57.7	57.5		
		59.6	59.7	271.2	268.3	8 33	87.3	90.7	55.5	55.5		
1148	5.3	42.1	42.9	263.8	258.4	8 24	89.7	94.4	46.6	46.7	4.5	1304
		44.3	44.9	265.3	261.2	8 34	90.9	96.0	44.4	44.7		
		46.4	46.9	266.7	262.0	8 44	92.2	97.7	42.2	42.7		
164	4.7	49.7	49.6	273.3	268.9	8 37	82.9	86.7	53.0	52.5	4.8	1323
		51.7	51.7	274.4	270.4	8 47	84.0	88.0	50.8	50.5		
		53.9	53.7	275.5	271.8	8 57	85.0	89.4	48.7	48.4		
1149	5.3	47.5	47.9	267.3	262.8	8 49	89.2	93.1	52.1	52.2	5.2	473
		49.7	50.0	268.7	264.4	8 59	90.4	94.6	49.9	50.1		
		51.8	52.0	269.9	266.0	9 9	91.7	96.2	47.8	48.1		
1163	4.3	39.9	41.1	271.2	265.2	9 0	82.4	87.5	44.3	43.9	4.8	1318
		42.1	42.1	272.4	266.8	9 10	83.4	88.9	42.2	41.8		
		44.2	44.1	273.5	268.3	9 20	84.4	90.3	40.0	39.8		
241	3.2	40.0	40.2	270.0	264.1	9 18	87.4	92.5	44.1	44.1	4.8	1323
		42.1	42.3	271.2	265.7	9 28	88.5	94.1	42.0	42.1		
		44.3	44.3	272.4	267.3	9 38	89.7	95.7	39.6	40.0		
1148	5.3	56.2	56.1	272.4	269.0	9 29	84.5	87.3	60.6	60.3	2.8	513
		58.3	58.2	273.6	270.5	9 39	85.7	88.7	58.5	58.2		
		60.5	60.2	274.7	271.9	9 49	86.8	90.2	56.3	56.2		
218	5.5	54.0	54.1	270.9	267.3	9 39	85.7	88.7	58.5	58.2	2.8	513
		56.2	56.2	272.1	268.7	9 49	86.8	90.2	56.3	56.2		
		58.4	58.2	273.3	270.2	9 59	88.0	91.6	54.2	54.1		
218	5.5	56.2	56.2	272.1	268.7	9 49	83.6	86.4	60.5	60.1	0.2	526
		58.4	58.2	273.3	270.2	9 59	84.7	87.8	58.4	58.1		
		60.5	60.3	274.4	271.6	10 9	85.8	89.2	56.2	56.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 30	LAT 35	HRS	MIN	LAT 30	LAT 35	Z.D.	Z.D.		
251	1.9	48.3	48.8	265.5	261.2	10	0	90.1	93.9	52.7	52.9	4.5	507
		50.4	50.9	266.9	262.8	10	10	91.4	95.5	50.6	50.9		
		52.6	52.9	268.2	264.4	10	20	92.7	97.1	48.4	48.8		
251	1.9	50.9	51.3	267.2	263.2	10	12	86.2	89.6	55.6	55.4	0.2	526
		53.0	53.3	268.5	264.8	10	22	87.3	91.1	53.4	53.3		
		55.2	55.4	269.8	266.3	10	32	88.5	92.5	51.2	51.3		
277	3.7	44.5	45.3	263.2	258.3	10	23	91.0	95.3	49.0	49.2	2.8	513
		46.6	47.3	264.7	260.1	10	33	92.3	96.9	46.8	47.2		
		48.8	49.3	266.1	261.8	10	43	93.6	98.6	44.6	45.2		
277	3.7	46.6	47.3	264.7	260.1	10	33	89.7	92.7	51.0	51.1	0.2	526
		48.8	49.3	266.1	261.8	10	43	89.9	94.2	48.9	49.0		
		50.9	51.3	267.5	263.4	10	53	91.1	95.8	46.7	47.0		
294	3.7	42.7	42.7	273.6	267.7	10	46	83.3	88.3	45.0	44.6	4.8	522
		42.9	42.7	274.6	269.2	10	56	84.3	89.7	42.8	42.6		
		45.1	44.8	275.7	270.7	11	6	85.3	91.1	40.7	40.5		
294	3.7	44.5	43.8	275.2	270.0	11	1	79.7	84.1	48.4	47.7	4.9	1383
		46.1	45.8	276.2	271.4	11	11	80.6	85.4	46.3	45.7		
		48.3	47.0	277.2	272.7	11	21	81.5	86.7	44.1	43.6		
294	3.7	46.1	45.8	276.2	271.4	11	11	78.2	82.3	50.6	49.8	4.7	557
		48.3	47.0	277.2	272.7	11	21	79.1	83.5	48.5	47.7		
		50.4	49.9	278.2	274.1	11	31	79.9	84.7	46.4	45.7		
277	3.7	57.0	57.0	271.0	267.8	11	21	84.6	87.3	61.2	60.9	4.3	564
		59.1	59.1	272.2	269.2	11	31	85.7	88.7	59.1	58.8		
		61.3	61.1	273.4	270.7	11	41	86.9	90.2	56.9	56.8		
1200	5.0	57.2	57.1	273.8	270.5	11	54	80.2	82.9	61.7	60.9	2.8	618
		59.4	59.1	274.8	271.9	12	4	81.2	84.2	59.5	58.9		
		61.5	61.1	276.0	273.3	12	14	82.3	85.5	57.4	56.9		
1244	4.6	38.4	38.2	275.4	269.1	12	18	81.8	87.2	42.9	42.4	2.3	578
		40.6	40.3	276.4	270.5	12	28	82.7	88.6	40.7	40.3		
		42.7	42.3	277.4	271.9	12	38	83.7	90.0	38.6	38.3		
337	4.3	51.9	52.9	261.4	257.6	12	26	92.6	95.9	56.4	56.8	4.5	613
		54.7	54.8	262.9	259.3	12	38	94.0	97.5	54.3	54.8		
		56.2	56.8	264.3	261.1	12	48	95.3	99.2	52.1	52.8		
1239	5.2	49.3	49.1	274.4	270.1	12	47	79.9	83.6	53.8	53.1	5.2	1440
		51.5	51.2	275.5	271.5	12	57	80.9	84.9	51.7	51.0		
		53.6	53.2	276.6	272.9	13	7	81.9	86.2	49.5	49.0		
379	3.6	41.0	42.3	261.8	256.4	13	1	91.5	96.2	46.4	46.7	3.8	609
		44.0	44.8	263.4	258.3	13	11	92.8	97.9	44.2	44.7		
		46.2	46.9	264.9	260.2	13	21	94.2	99.7	42.0	42.6		
367	3.1	47.7	47.4	276.1	271.6	13	19	80.6	84.5	51.9	51.2	3.2	641
		49.0	49.4	277.2	272.9	13	29	81.5	85.8	49.7	49.2		
		52.0	51.5	278.2	274.2	13	39	82.5	87.1	47.6	47.1		
384	3.7	44.4	44.3	274.0	268.8	13	34	82.0	86.4	48.7	48.2	3.2	641
		46.6	46.4	275.1	270.3	13	44	83.0	87.8	46.5	46.1		
		48.7	48.4	276.1	271.7	13	54	84.0	89.2	44.4	44.1		
405	5.1	41.5	41.6	272.1	266.5	13	47	83.3	88.2	45.9	45.5	3.2	641
		43.7	43.6	273.2	268.3	13	57	84.3	89.6	43.7	43.5		
		45.9	45.7	274.4	269.5	14	7	85.4	91.0	41.6	41.4		
405	5.1	45.6	45.5	274.2	269.3	14	6	79.7	83.9	50.1	49.4	5.5	1468
		47.8	47.5	275.3	270.8	14	16	80.7	85.2	48.0	47.3		
		49.9	49.6	276.4	272.2	14	26	81.6	86.5	45.8	45.3		
423	3.4	46.2	47.1	262.8	258.1	14	25	92.6	96.7	50.4	50.8	4.7	1469
		48.3	49.0	264.3	259.9	14	35	94.0	98.3	48.3	48.8		
		50.5	51.0	265.7	261.6	14	45	95.4	100.1	46.1	46.8		
422	2.6	46.7	46.9	270.8	266.1	14	37	85.2	89.3	51.0	50.7	3.9	690
		48.8	48.8	272.0	267.7	14	47	86.4	90.7	48.8	48.7		
		51.0	51.9	273.2	269.1	14	57	87.5	92.2	46.6	46.6		
423	3.4	51.9	51.4	265.9	261.9	14	47	87.9	91.3	55.3	55.2	4.4	1491
		53.1	53.4	267.3	263.6	14	57	89.1	92.8	53.1	53.2		
		55.2	55.5	268.6	265.1	15	7	90.3	94.3	50.9	51.1		
1304	4.5	45.7	45.9	265.8	265.0	15	6	87.5	91.7	49.9	49.9	4.3	703
		47.9	48.0	271.1	266.6	15	16	88.7	93.2	47.7	47.8		
		50.0	51.0	272.3	268.1	15	26	89.9	94.8	45.6	45.8		
423	3.4	57.4	57.5	269.9	266.7	15	17	84.0	86.7	61.7	61.3	3.8	743
		59.5	59.6	271.1	268.2	15	27	85.1	88.1	59.5	59.2		
		61.7	61.6	272.3	269.6	15	37	86.3	89.5	57.4	57.2		
473	5.2	40.9	41.6	263.8	258.1	15	27	90.1	95.0	45.4	45.6	4.3	703
		42.9	43.6	265.2	260.0	15	37	91.3	96.6	43.2	43.5		
		45.1	45.6	266.7	261.7	15	47	92.7	98.3	41.0	41.5		

LAT	MAG	WEST STAR		AZ		DIST		AZ		EAST STAR		MAG	CAT NO
		LAT 30	LAT 35	LAT 30	LAT 35	HR	MIN	LAT 30	LAT 35	LAT 30	LAT 35		
1328	5.5	52.9	53.2	267.5	267.7	15	38	86.4	89.6	57.1	57.0	3.8	743
		55.0	55.3	268.9	265.3	15	48	87.6	91.1	55.0	54.9		
		57.2	57.3	270.0	266.8	15	58	88.8	92.6	52.8	52.9		
1323	4.9	44.7	44.0	272.6	267.4	15	49	87.5	86.9	48.5	48.0	4.6	1508
		46.1	46.7	273.7	268.9	15	59	83.5	88.3	46.3	46.0		
		48.3	49.1	274.8	272.3	16	9	84.5	89.7	44.2	43.9		
1304	4.5	57.6	57.2	276.2	273.0	16	1	87.5	83.1	62.1	61.4	4.8	1535
		59.7	59.2	277.3	274.4	16	11	81.5	84.4	67.0	59.4		
		61.9	61.3	278.4	275.7	16	21	82.6	85.8	57.8	57.3		
1323	4.8	49.2	48.9	275.2	272.9	16	13	87.1	83.8	53.6	52.9	5.5	760
		51.3	50.9	276.3	272.3	16	23	81.1	85.1	51.5	50.9		
		53.5	53.0	277.3	273.6	16	33	82.1	86.4	49.3	48.8		
1326	5.0	55.5	56.4	261.7	259.4	16	25	94.2	97.0	60.1	60.6	4.0	768
		57.7	58.4	263.1	260.0	16	35	95.5	98.6	57.9	58.5		
		59.9	60.4	264.5	261.7	16	45	96.9	100.2	55.8	56.5		
507	4.5	41.4	42.2	262.6	257.1	16	40	91.5	96.3	45.8	46.1	3.7	752
		43.5	44.3	264.1	259.0	16	50	92.8	98.0	43.6	44.1		
		45.7	46.2	265.6	260.9	17	0	94.2	99.7	41.5	42.1		
1340	5.2	47.4	50.3	267.6	258.4	16	51	91.9	95.5	53.8	54.1	3.9	774
		51.6	52.3	264.7	267.1	17	1	93.2	97.1	51.6	52.0		
		53.7	54.3	265.4	261.8	17	11	94.5	98.8	49.4	50.0		
513	2.3	44.3	44.9	266.2	261.1	17	3	87.3	91.7	48.8	48.7	4.8	1539
		46.5	46.9	267.5	262.8	17	13	89.4	93.2	46.6	46.7		
		48.6	48.9	268.9	264.5	17	23	90.7	94.7	44.5	44.6		
526	4.2	41.9	42.4	265.8	267.3	17	14	88.6	93.3	46.4	46.5	4.8	1535
		44.7	44.5	267.2	262.1	17	24	89.8	94.9	44.2	44.4		
		46.2	46.5	268.5	263.8	17	34	91.1	96.6	42.1	42.4		
513	2.3	47.3	49.6	269.2	265.7	17	26	86.6	90.2	53.8	53.6	4.3	804
		51.5	51.6	270.5	266.5	17	36	87.7	91.7	51.6	51.6		
		53.6	53.6	271.7	268.0	17	46	88.9	93.2	49.4	49.5		
1383	4.9	38.3	38.1	276.0	269.6	17	37	80.0	85.4	42.7	42.1	5.2	766
		40.5	40.1	276.0	271.0	17	47	80.9	86.7	40.6	40.1		
		42.6	42.2	277.8	272.4	17	57	81.7	88.0	38.5	38.0		
522	4.8	48.6	48.1	278.4	274.0	17	50	78.7	82.5	53.0	52.2	5.1	823
		50.8	50.1	279.4	275.3	18	0	79.7	83.8	50.9	50.2		
		52.9	52.2	280.3	276.5	18	10	80.6	85.0	48.8	48.2		
1396	5.0	44.2	43.9	276.0	279.9	18	26	81.5	86.0	48.5	48.0	4.0	831
		46.4	46.7	277.0	272.2	18	36	82.5	87.3	46.4	45.9		
		48.5	48.0	278.0	273.6	18	46	83.5	88.7	44.2	43.9		
519	2.3	47.4	40.8	268.6	262.8	19	26	84.2	89.2	45.1	44.8	3.7	862
		42.6	42.8	269.9	264.5	19	36	85.3	90.7	42.9	42.8		
		44.7	44.9	271.1	266.1	19	46	86.3	92.2	40.8	40.7		
594	4.3	53.5	53.6	271.2	267.5	19	39	85.4	88.5	57.8	57.5	5.2	858
		55.7	55.6	272.4	265.0	19	49	86.5	89.9	55.6	55.5		
		57.8	57.7	273.6	270.5	19	59	87.7	91.4	53.5	53.4		
584	4.3	55.7	55.6	272.4	265.0	19	49	82.9	85.8	59.9	59.5	4.9	1004
		57.8	57.7	273.6	270.5	19	59	84.0	87.1	57.8	57.4		
		60.0	59.7	274.8	271.9	20	9	85.1	88.5	55.6	55.4		
513	4.5	53.4	54.0	265.5	261.8	20	7	90.4	93.6	57.9	56.1	2.9	7
		55.6	56.0	266.8	263.5	20	17	91.7	95.1	55.7	56.0		
		57.7	58.0	268.2	265.0	20	27	93.0	96.7	53.6	54.0		
513	4.5	56.9	57.2	267.6	264.4	20	23	86.2	89.0	61.4	61.2	5.2	1020
		59.0	59.3	268.9	265.9	20	33	87.4	90.4	59.2	59.1		
		61.2	61.3	270.2	267.4	20	43	88.6	91.8	57.1	57.1		
579	3.8	57.8	57.5	274.9	271.7	20	34	80.7	83.4	62.1	61.5	4.9	1032
		60.0	59.6	276.0	273.1	20	44	81.8	84.7	60.0	59.4		
		62.1	61.6	277.1	274.5	20	54	82.9	86.0	57.9	57.4		
1454	5.2	51.7	51.9	270.0	266.1	21	2	83.7	87.1	56.1	55.7	4.9	1032
		53.9	53.9	271.3	267.6	21	12	84.8	88.5	54.0	53.7		
		56.0	56.7	272.5	269.1	21	22	85.9	89.9	51.8	51.6		
1459	4.7	46.7	46.7	264.6	259.9	21	13	92.4	96.5	50.6	51.0	5.2	1020
		48.2	48.7	266.0	261.6	21	23	93.7	98.1	48.4	48.9		
		50.4	50.8	267.4	263.3	21	33	95.2	99.8	46.2	46.9		
1454	5.2	56.5	56.4	272.7	269.4	21	24	81.7	84.5	60.8	60.2	2.7	66
		58.6	58.4	273.9	270.8	21	34	82.7	85.8	58.6	58.1		
		60.8	60.5	275.0	272.2	21	44	83.8	87.2	56.5	56.1		
703	4.3	42.7	42.4	267.9	262.4	21	47	89.9	93.6	46.4	46.5	4.9	1032
		44.2	44.4	269.2	264.1	21	57	90.1	95.2	44.3	44.5		
		46.3	46.5	270.5	265.7	22	7	91.4	96.9	42.1	42.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.				HRS	MIN			Z. D.			
		LAT 30	LAT 35	LAT 30	LAT 35			LAT 30	LAT 35	LAT 30	LAT 35		
691	3.9	49.7	49.6	274.1	269.9	22	3	81.5	85.2	54.1	53.5	2.2	74
		51.9	51.6	275.2	271.3	22	13	82.6	86.5	51.9	51.5		
		54.1	53.7	276.3	272.7	22	23	83.6	87.8	49.8	49.4		
713	4.3	47.6	47.7	271.2	266.7	22	13	82.6	86.5	51.9	51.5	2.2	74
		49.8	49.8	272.4	269.2	22	23	83.6	87.8	49.8	49.4		
		51.9	51.8	273.6	269.6	22	33	84.6	89.2	47.6	47.4		
722	4.3	51.3	51.2	273.2	269.2	22	30	82.7	86.2	55.6	55.1	5.4	89
		53.5	53.2	274.4	270.6	22	40	83.8	87.5	53.5	53.1		
		55.6	55.3	275.5	272.9	22	50	84.9	88.9	51.3	51.1		
752	3.7	39.9	39.7	264.1	258.1	22	44	90.9	96.1	43.5	43.8	2.7	66
		41.1	41.7	265.6	259.9	22	54	92.2	97.8	41.3	41.8		
		43.3	43.9	267.0	261.7	23	4	93.6	99.6	39.2	39.8		
1528	4.6	46.2	45.8	276.5	271.6	22	56	78.0	82.1	50.6	49.8	3.7	100
		48.3	47.9	277.5	273.3	23	6	78.8	83.3	48.5	47.7		
		50.5	49.9	278.5	274.3	23	16	79.7	84.5	46.4	45.7		
1511	4.5	49.9	50.2	268.0	263.8	23	13	86.4	90.0	54.3	54.1	4.5	114
		52.0	52.3	269.3	265.4	23	23	87.5	91.4	52.1	52.1		
		54.2	54.3	270.6	267.0	23	33	88.7	92.9	50.0	50.0		
741	2.3	54.5	55.4	261.3	257.8	23	25	92.8	95.8	58.8	59.2	4.3	125
		56.6	57.4	262.7	259.5	23	35	94.1	97.4	56.6	57.1		
		58.8	59.4	264.1	261.2	23	45	95.5	99.0	54.5	55.1		
752	3.7	52.8	52.7	272.5	268.7	23	48	81.7	85.0	57.2	56.7	4.5	1112
		54.9	54.8	273.7	270.2	23	58	82.8	86.3	55.1	54.6		
		57.1	56.9	274.9	271.6	24	8	83.9	87.7	53.0	52.6		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 35	LAT 40	LAT 35	LAT 40	HRS	MIN	LAT 35	LAT 40	LAT 35	LAT 40		
1539	4.8	45.6	46.2	266.0	261.2	23	57	86.5	90.8	49.9	45.7	3.8	136
		47.7	48.1	267.6	263.0	0	7	87.9	92.4	47.8	47.8		
		49.7	50.1	269.0	264.8	0	17	89.3	94.1	45.8	45.9		
1539	4.8	45.8	46.4	266.2	261.4	23	58	86.3	90.5	50.2	50.0	3.0	139
		47.9	48.3	267.7	263.2	0	8	87.7	92.2	48.1	48.1		
		49.9	50.2	269.2	265.0	0	18	89.1	93.9	46.1	46.2		
1539	4.9	46.9	46.5	266.3	261.6	23	59	86.3	90.5	50.3	50.2	3.8	142
		48.1	48.4	267.9	263.4	0	9	87.7	92.1	48.3	48.3		
		50.1	50.4	269.3	265.2	0	19	89.0	93.8	46.3	46.4		
1539	4.8	48.1	48.4	267.9	263.4	0	9	87.8	91.7	52.4	52.4	4.5	1112
		50.1	50.4	269.3	265.2	0	19	89.2	93.3	50.3	50.4		
		52.2	52.3	270.8	266.9	0	29	90.6	95.1	48.3	48.5		
778	4.5	52.3	53.1	261.8	258.1	0	19	91.5	94.8	56.3	56.6	3.9	162
		54.3	55.0	263.4	259.9	0	29	93.0	96.5	54.3	54.7		
		56.3	56.9	265.0	261.7	0	39	94.5	98.3	52.2	52.8		
1541	4.5	53.3	53.9	264.2	261.5	0	30	92.2	95.4	57.2	57.6	1.1	168
		55.3	55.8	265.7	262.3	0	40	93.7	97.2	55.2	55.7		
		57.4	57.7	267.3	264.1	0	50	95.3	99.0	53.2	53.8		
778	4.5	56.9	57.5	265.5	262.3	0	42	90.9	93.6	61.2	61.4	4.7	1140
		59.0	59.4	267.0	264.0	0	52	92.3	95.3	59.2	59.5		
		61.0	61.3	268.5	265.7	1	2	93.8	97.0	57.1	57.6		
864	4.3	59.1	59.5	267.2	263.1	0	59	87.2	90.8	54.3	54.2	4.7	184
		52.1	52.4	268.7	264.8	1	9	88.5	92.4	52.3	52.3		
		54.2	54.3	270.1	266.5	1	19	90.0	94.1	50.2	50.4		
874	4.3	53.8	53.9	269.0	266.2	1	17	85.4	88.5	57.9	57.6	3.6	211
		55.8	55.8	271.3	267.3	1	27	86.7	90.1	55.9	55.7		
		57.9	57.8	272.7	267.5	1	37	88.1	91.6	53.8	53.8		
823	5.1	49.3	49.0	275.7	271.4	1	40	79.3	83.0	53.5	52.7	4.5	1158
		51.4	50.9	277.0	272.9	1	50	80.5	84.5	51.5	50.8		
		53.4	52.8	278.2	274.4	2	0	81.6	85.9	49.4	48.9		
1570	5.3	57.8	57.7	271.9	268.8	1	51	84.0	86.7	61.9	61.5	4.1	1173
		59.8	59.6	273.3	275.4	2	1	85.3	88.3	59.8	59.6		
		61.8	61.6	274.7	272.1	2	11	86.7	89.8	57.8	57.6		
870	2.5	38.7	38.8	272.4	266.2	2	3	84.0	89.4	43.0	42.7	1.8	202
		40.8	40.7	273.7	267.9	2	13	85.2	91.0	40.9	40.7		
		42.8	42.6	275.0	269.6	2	23	86.4	92.6	38.9	38.8		
870	2.5	43.6	43.4	275.5	270.2	2	27	79.9	84.4	47.7	47.0	4.5	1166
		45.7	45.3	276.7	271.8	2	37	81.0	85.9	45.7	45.1		
		47.7	47.2	277.0	273.3	2	47	82.1	87.4	43.6	43.2		
971	2.5	51.7	52.6	261.5	257.7	2	38	93.0	96.6	56.0	56.4	1.9	251
		53.8	54.5	263.2	259.6	2	48	94.8	98.3	54.0	54.5		
		55.8	56.4	264.8	261.4	2	58	96.3	100.2	51.9	52.6		
880	4.7	46.5	46.7	270.6	265.8	2	49	84.3	88.4	50.8	50.5	3.2	254
		48.5	48.6	272.0	267.5	2	59	85.6	90.0	48.8	48.6		
		50.6	50.5	273.3	269.2	3	9	86.9	91.7	46.7	46.7		
881	4.6	46.1	46.2	269.8	265.0	2	51	84.6	89.8	50.4	50.1	3.2	254
		48.1	48.2	271.2	266.7	3	1	85.9	90.4	48.4	48.2		
		50.2	50.1	272.6	268.4	3	11	87.2	92.0	46.3	46.3		
862	2.7	54.4	53.9	277.0	273.4	2	59	77.3	80.4	58.5	57.5	4.2	1156
		56.4	55.9	278.2	274.9	3	9	78.5	81.8	56.5	55.6		
		58.5	57.8	279.4	276.4	3	19	79.6	83.2	54.5	53.7		
1629	4.9	42.6	42.8	270.1	264.7	3	10	87.1	91.8	46.5	46.5	3.2	254
		44.6	44.7	271.5	266.4	3	20	88.4	93.5	44.5	44.6		
		46.7	46.6	272.9	268.1	3	30	89.8	95.3	42.4	42.6		
890	4.7	52.9	52.6	274.8	271.0	3	20	81.4	84.7	57.1	56.5	3.7	294
		54.9	54.5	276.1	272.5	3	30	82.7	86.2	55.1	54.6		
		56.9	56.4	277.3	274.1	3	40	83.9	87.7	53.1	52.7		
881	4.6	52.4	52.2	274.0	270.2	3	22	81.7	85.0	56.7	56.1	3.7	294
		54.5	54.2	275.3	271.8	3	32	82.9	86.5	54.7	54.2		
		56.5	56.1	276.6	273.3	3	42	84.2	88.0	52.6	52.3		
1629	4.8	47.3	47.2	273.2	268.6	3	33	81.3	85.3	51.7	51.1	4.2	1156
		49.3	49.1	274.6	270.2	3	43	82.5	86.8	49.6	49.2		
		51.4	51.0	275.8	271.8	3	53	83.7	88.3	47.6	47.3		
27	4.3	39.8	40.3	266.6	260.6	3	44	90.4	95.6	43.7	44.0	5.2	1182
		41.8	42.2	268.1	262.6	3	54	91.9	97.4	41.7	42.1		
		43.9	44.1	269.6	264.4	4	4	93.4	99.4	39.6	40.2		
1629	4.8	51.8	51.4	276.1	272.1	3	55	78.3	81.7	56.0	55.1	5.2	1217
		53.8	53.3	277.3	273.7	4	5	79.5	83.1	54.0	53.2		
		55.8	55.2	278.6	275.2	4	15	80.6	84.6	52.0	51.3		

CATNO	MAG	WEST STAR		AZ		LST HRS MIN	AZ		EAST STAR		MAG	CATNO
		Z. D. LAT 35 LAT 40	LAT 35 LAT 40	LAT 35 LAT 40	LAT 35 LAT 40		Z. D. LAT 35 LAT 40	LAT 35 LAT 40				
27	4.3	44.3	44.5	269.9	264.8	4 6	83.3	87.7	48.6	48.2	5.0	1207
		46.3	46.4	271.3	266.5	4 16	84.5	89.3	46.5	46.3		
		48.4	48.3	272.6	268.2	4 26	85.8	90.9	44.5	44.4		
1004	4.9	54.9	55.0	271.2	267.7	4 16	84.1	87.1	59.1	58.7	4.7	1228
		57.0	56.9	272.6	269.3	4 26	85.4	88.7	57.0	56.8		
		59.0	58.8	273.9	270.9	4 36	86.7	90.3	55.0	54.9		
1004	4.9	57.4	57.3	272.9	269.7	4 28	81.7	84.4	61.6	61.0	5.2	1239
		59.4	59.2	274.2	271.2	4 38	83.0	85.9	59.6	59.1		
		61.5	61.1	275.6	272.8	4 48	84.3	87.5	57.6	57.2		
45	4.7	47.0	42.9	273.8	269.4	4 38	83.4	88.0	47.3	46.9	5.2	1217
		45.1	44.8	275.1	270.1	4 48	84.6	89.6	45.3	45.0		
		47.1	46.7	276.3	271.6	4 58	85.9	91.2	43.2	43.1		
27	4.3	53.7	53.3	276.1	272.4	4 52	78.5	81.6	58.0	57.1	4.6	1244
		55.7	55.2	277.3	273.9	5 2	79.7	83.1	55.9	55.2		
		57.8	57.1	278.6	275.4	5 12	80.9	84.5	53.9	53.3		
66	2.7	44.6	45.3	264.5	259.6	5 7	91.1	95.5	48.6	48.9	4.7	1228
		46.7	47.2	266.1	261.5	5 17	92.6	97.3	46.6	47.0		
		48.7	49.1	267.7	263.3	5 27	94.2	99.1	44.5	45.1		
66	2.7	47.1	47.6	266.5	261.9	5 19	88.4	92.4	51.2	51.3	5.2	1239
		49.1	49.5	268.0	263.7	5 29	89.8	94.1	49.2	49.4		
		51.2	51.4	269.5	265.4	5 39	91.3	95.9	47.2	47.5		
74	2.2	45.7	46.0	269.6	264.8	5 31	83.2	87.4	50.1	49.7	4.6	1244
		47.8	47.9	271.0	266.5	5 41	84.4	89.9	48.0	47.8		
		49.8	49.8	272.4	269.2	5 51	85.7	90.5	46.0	45.8		
74	2.2	48.6	48.6	271.6	267.2	5 45	85.0	88.9	52.6	52.3	3.1	367
		50.6	50.5	273.0	269.9	5 55	86.4	90.5	50.6	50.4		
		52.7	52.5	274.3	270.5	6 5	87.7	92.1	48.5	48.5		
74	2.2	51.9	51.7	273.8	269.8	6 1	83.5	86.9	55.8	55.4	3.7	384
		53.9	53.6	275.1	271.4	6 11	84.8	88.5	53.7	53.5		
		55.9	55.5	276.4	273.0	6 21	86.1	90.1	51.7	51.5		
1089	5.0	42.0	42.9	262.8	257.4	6 15	89.1	93.8	46.5	46.6	3.1	367
		44.0	44.7	264.5	259.4	6 25	90.5	95.6	44.4	44.7		
		46.1	46.6	266.1	261.4	6 35	92.0	97.4	42.4	42.8		
1089	5.0	45.3	45.9	265.5	260.6	6 31	87.5	91.7	49.7	49.6	3.7	384
		47.3	47.8	267.0	262.5	6 41	88.8	93.4	47.6	47.7		
		49.3	49.7	268.5	264.3	6 51	90.2	95.1	45.6	45.8		
1089	5.0	48.1	48.5	267.6	263.2	6 45	86.0	89.9	52.4	52.2	5.1	405
		50.2	50.4	269.1	265.7	6 55	87.3	91.5	50.3	50.3		
		52.2	52.3	270.6	266.7	7 5	88.7	93.2	48.3	48.4		
114	4.5	52.5	52.8	268.9	265.0	7 0	86.8	90.0	56.8	56.7	2.6	422
		54.5	54.7	270.3	266.8	7 10	88.1	91.7	54.8	54.8		
		56.6	56.6	271.7	268.4	7 20	89.5	93.3	52.7	52.9		
114	4.5	56.2	56.2	271.4	268.1	7 18	84.9	87.8	60.2	59.9	4.5	1304
		58.2	58.1	272.8	269.7	7 28	86.3	89.4	58.2	58.0		
		60.3	60.0	274.2	271.3	7 38	87.6	91.0	56.1	56.1		
164	3.6	44.8	45.7	262.1	257.2	7 38	92.2	96.5	49.1	49.4	2.6	422
		46.8	47.6	263.8	259.2	7 48	93.7	98.3	47.0	47.5		
		48.9	49.5	265.4	261.1	7 58	95.3	100.2	45.0	45.6		
164	3.6	48.5	49.1	265.1	260.7	7 56	90.2	94.0	52.5	52.6	4.5	1304
		50.5	51.0	266.7	262.6	8 6	91.6	95.7	50.4	50.7		
		52.6	52.9	268.2	264.4	8 16	93.1	97.5	48.4	48.8		
1135	5.1	46.0	46.9	262.6	257.9	8 6	91.6	95.7	50.4	50.7	4.5	1304
		48.1	48.8	264.3	259.9	8 16	93.1	97.5	48.4	48.8		
		50.1	50.7	265.9	261.7	8 26	94.7	99.4	46.3	46.9		
168	1.1	53.7	54.2	265.1	261.5	8 22	89.1	92.3	57.7	57.8	5.2	473
		55.7	56.1	266.6	263.3	8 32	90.5	93.9	55.7	55.9		
		57.7	58.0	268.1	265.1	8 42	92.0	95.7	53.6	54.0		
184	4.7	48.4	48.7	269.8	264.4	8 36	86.6	90.4	52.7	52.6	4.8	1323
		50.5	50.6	271.2	266.1	8 46	87.9	92.0	50.7	50.7		
		52.5	52.5	271.6	267.8	8 56	89.3	93.7	48.6	48.8		
1149	5.3	47.9	48.8	262.8	258.4	8 49	93.1	96.9	52.2	52.6	5.2	473
		50.0	50.6	264.4	260.3	8 59	94.6	98.7	50.1	50.7		
		52.0	52.5	266.0	262.2	9 9	96.2	100.6	48.1	48.8		
1163	4.3	39.9	40.5	265.0	259.2	9 59	87.4	92.6	44.1	44.1	4.8	1316
		41.9	42.4	266.7	261.2	9 9	88.8	94.3	42.0	42.2		
		43.9	44.3	268.2	263.0	9 19	90.2	96.1	40.0	40.3		
1158	4.5	42.7	42.6	274.3	268.9	9 11	83.1	87.8	46.9	46.5	5.1	1332
		44.7	44.5	275.6	270.5	9 21	84.3	89.3	44.9	44.6		
		46.8	46.4	276.8	272.1	9 31	85.5	90.9	42.8	42.7		

CATNO	MAG	WEST STAR		AZ		LST	AZ		EAST STAR		MAG	CATNO
		LAT 35	LAT 40	LAT 35	LAT 40		LAT 35	LAT 40	LAT 35	LAT 40		
1158	4.5	44.7	44.5	275.6	270.5	9 21	81.4	85.8	48.9	42.3	4.3	492
		46.8	46.4	276.8	272.1	9 31	82.6	87.3	46.8	46.4		
		49.8	48.3	278.0	273.6	9 41	83.8	88.9	44.8	44.5		
254	3.2	39.0	38.6	267.0	260.7	9 34	85.9	91.4	42.2	42.1	5.1	1332
		40.1	40.5	268.5	262.6	9 44	87.2	93.1	40.2	40.2		
		42.1	42.4	270.0	264.5	9 54	88.5	94.9	38.1	38.3		
254	3.2	40.1	40.5	268.5	262.6	9 44	84.2	89.4	44.2	43.9	4.3	492
		42.1	42.4	270.0	264.5	9 54	85.4	91.0	42.1	42.0		
		44.2	44.3	271.4	266.2	10 4	86.7	92.6	40.1	40.1		
1163	4.3	51.1	51.0	273.1	269.1	9 54	81.6	85.1	55.2	54.6	4.8	522
		53.2	52.9	274.5	270.7	10 4	82.8	86.6	53.2	52.7		
		55.2	54.8	275.8	272.3	10 14	84.1	88.1	51.1	50.8		
1169	5.1	56.6	57.5	261.4	258.2	10 6	94.4	97.2	60.6	61.1	5.3	1372
		58.7	59.4	263.0	260.0	10 16	56.0	99.0	58.5	55.2		
		60.7	61.3	264.5	261.8	10 26	97.6	100.8	56.5	57.3		
254	3.2	46.6	46.6	273.0	268.3	10 16	84.3	88.4	50.7	50.4	4.6	522
		48.7	48.5	274.3	269.9	10 26	85.6	90.0	48.7	48.5		
		50.7	50.4	275.6	271.5	10 36	86.9	91.7	46.7	46.6		
254	3.2	49.7	49.5	275.0	270.7	10 31	89.5	84.2	53.8	53.1	4.9	1383
		51.7	51.4	276.2	272.3	10 41	81.7	85.6	51.8	51.2		
		53.8	53.3	277.5	273.8	10 51	82.9	87.2	49.7	49.3		
254	3.2	51.7	51.4	276.2	272.3	10 41	78.7	82.1	55.8	55.0	4.7	557
		53.8	53.3	277.5	273.8	10 51	79.9	83.6	53.8	53.1		
		55.8	55.2	278.7	275.3	11 1	81.1	85.0	51.8	51.2		
1196	4.2	42.4	42.4	273.1	267.6	10 51	79.9	84.7	46.7	46.0	4.5	1380
		44.5	44.3	274.4	269.3	11 1	81.0	86.1	44.7	44.1		
		46.5	46.2	275.6	270.9	11 11	82.2	87.6	42.7	42.2		
1192	5.2	53.1	52.7	275.8	272.0	11 4	78.2	81.4	57.4	56.5	2.3	576
		55.1	54.6	277.0	273.5	11 14	79.3	82.8	55.4	54.6		
		57.1	56.5	278.3	275.0	11 24	80.5	84.2	53.4	52.7		
294	3.7	46.4	46.5	271.8	267.0	11 14	84.8	88.9	50.6	50.4	5.0	1396
		48.5	48.4	273.1	268.7	11 24	86.0	90.5	48.6	48.4		
		50.5	50.3	274.5	270.3	11 34	87.4	92.1	46.5	46.5		
295	1.2	46.8	46.3	277.5	272.8	11 24	78.5	82.6	51.0	50.2	3.7	572
		48.8	48.2	278.7	274.3	11 34	79.6	84.0	49.0	48.3		
		50.8	50.2	279.8	275.7	11 44	80.8	85.4	47.0	46.4		
294	3.7	51.1	50.9	274.8	270.8	11 37	79.2	82.6	55.3	54.5	4.2	593
		53.2	52.8	276.1	272.4	11 47	80.3	84.1	53.3	52.6		
		55.2	54.7	277.4	273.9	11 57	81.5	85.6	51.3	50.7		
328	4.2	40.5	40.3	275.0	269.1	11 56	82.1	87.2	44.6	44.1	3.7	572
		42.6	42.3	276.2	270.7	12 6	83.3	88.8	42.5	42.2		
		44.6	44.2	277.4	272.3	12 16	84.5	90.3	40.5	40.3		
294	3.7	57.2	56.6	278.6	275.4	12 7	78.7	81.4	61.2	60.3	5.2	1440
		59.2	58.5	279.9	276.9	12 17	79.9	82.9	59.2	58.4		
		61.3	60.4	281.1	278.3	12 27	81.1	84.3	57.1	56.5		
1244	4.6	39.2	38.6	269.1	262.8	12 18	87.2	92.7	42.4	42.4	2.3	576
		40.3	40.5	270.5	264.7	12 28	88.6	94.4	40.3	40.5		
		42.3	42.4	271.9	266.4	12 38	90.0	96.3	38.3	38.6		
1244	4.6	40.5	40.7	270.7	264.8	12 29	85.5	90.5	44.8	44.6	4.2	593
		42.5	42.6	272.1	266.6	12 39	86.7	92.2	42.7	42.7		
		44.6	44.5	273.4	268.3	12 49	88.1	93.9	40.7	40.8		
1239	5.2	49.9	49.1	270.0	265.6	12 46	83.5	87.2	53.3	52.9	5.2	1440
		51.9	51.0	271.4	267.3	12 56	84.7	88.8	51.3	51.0		
		53.9	52.9	272.8	269.0	13 6	86.0	90.4	49.2	49.1		
367	3.1	44.9	45.2	269.9	264.9	13 7	86.2	90.5	49.0	48.9	5.2	1440
		47.0	47.1	271.3	266.6	13 17	87.5	92.2	47.6	46.9		
		49.0	49.0	272.6	268.3	13 27	88.9	93.9	44.9	45.0		
367	3.1	47.2	47.3	271.4	266.8	13 18	84.4	88.4	51.4	51.1	3.2	641
		49.2	49.2	272.8	268.5	13 28	85.7	90.0	49.4	49.2		
		51.3	51.1	274.1	270.1	13 38	87.0	91.6	47.4	47.3		
364	3.7	44.1	44.4	268.7	263.6	13 33	86.3	90.8	48.4	48.2	3.2	641
		46.1	46.3	270.2	265.4	13 43	87.6	92.4	46.3	46.3		
		48.2	48.3	271.6	267.1	13 53	89.0	94.1	44.3	44.4		
371	4.1	50.5	50.1	276.8	272.7	13 46	77.0	80.6	54.7	53.8	3.8	661
		52.6	52.0	278.1	274.2	13 56	78.2	82.0	52.7	51.9		
		54.6	53.9	279.3	275.7	14 6	79.3	83.4	50.7	50.0		
379	3.6	57.6	57.9	268.6	265.5	14 14	86.7	89.3	62.0	61.8	4.4	1491
		59.7	59.8	270.0	267.1	14 24	88.0	90.9	59.9	59.9		
		61.7	61.7	271.5	268.8	14 34	89.4	92.6	57.9	58.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D. LAT 35 LAT 40	Z.D. LAT 35 LAT 40	LAT 15 LAT 40	LAT 15 LAT 40	HRS MIN	HRS MIN	LAT 35 LAT 40	LAT 35 LAT 40	Z.D. LAT 35 LAT 40	Z.D. LAT 35 LAT 40		
422	2.6	46.6	47.1	266.0	261.3	14 36	14 36	89.2	93.2	50.9	51.0	3.9	690
		48.6	49.0	267.5	263.1	14 46	14 46	90.6	94.9	48.9	49.1		
		50.7	50.9	269.0	264.9	14 56	14 56	92.1	96.7	46.8	47.2		
423	3.4	51.2	52.1	261.8	257.9	14 46	14 46	91.2	94.6	55.4	55.7	4.4	1491
		53.2	54.0	263.4	259.9	14 56	14 56	92.7	96.3	53.4	53.8		
		55.3	55.9	265.0	261.6	15 6	15 6	94.2	98.1	51.3	51.9		
425	5.1	56.3	55.9	276.5	273.2	14 59	14 59	77.6	80.4	60.7	59.7	5.5	1515
		58.3	57.8	277.8	274.7	15 9	15 9	79.8	81.9	58.7	57.8		
		60.4	59.7	279.0	276.2	15 19	15 19	80.0	83.3	56.7	55.9		
423	3.4	57.3	57.8	266.5	263.4	15 16	15 16	86.6	89.3	61.5	61.3	3.8	743
		59.4	59.7	268.0	265.1	15 26	15 26	87.9	90.9	59.4	59.4		
		61.4	61.6	269.5	266.8	15 36	15 36	89.3	92.5	57.4	57.5		
444	2.2	53.5	54.4	262.4	258.8	15 39	15 39	93.5	93.6	57.8	58.0	4.5	1513
		55.6	56.2	264.0	261.6	15 40	15 40	91.9	95.3	55.8	56.1		
		57.6	58.1	265.5	263.4	15 50	15 50	93.4	97.1	53.8	54.2		
1318	4.3	43.9	43.9	272.5	267.2	15 43	15 43	81.9	86.4	48.3	47.8	3.2	732
		45.9	45.8	273.8	269.9	15 53	15 53	83.1	87.0	46.2	45.8		
		48.0	47.7	275.1	270.5	16 3	16 3	84.3	89.4	44.2	43.9		
1323	4.9	45.2	45.6	268.2	263.4	15 55	15 55	84.4	88.7	49.4	49.1	5.5	1515
		47.2	47.5	269.7	265.1	16 5	16 5	85.7	90.3	47.3	47.2		
		49.3	49.4	271.2	266.9	16 15	16 15	87.0	92.0	45.3	45.2		
473	5.2	49.3	49.9	264.7	260.5	16 5	16 5	93.9	94.6	53.3	53.5	3.7	752
		51.3	51.8	266.3	262.3	16 15	16 15	92.4	96.3	51.2	51.6		
		53.4	53.7	267.8	264.1	16 25	16 25	93.9	98.1	49.2	49.7		
1332	5.1	43.8	43.6	275.0	269.8	16 15	16 15	82.3	86.9	48.0	47.6	4.7	1523
		45.8	45.5	276.3	271.4	16 25	16 25	83.5	88.4	46.0	45.6		
		47.8	47.4	277.5	272.9	16 35	16 35	84.8	90.0	44.0	43.7		
1332	5.1	46.2	45.9	276.5	271.7	16 27	16 27	77.3	81.5	50.3	49.4	4.1	1534
		48.2	47.8	277.7	273.2	16 37	16 37	79.4	82.9	48.3	47.5		
		50.3	49.7	278.9	274.7	16 47	16 47	79.5	84.3	46.3	45.6		
472	4.3	44.3	43.7	275.2	270.5	16 37	16 37	78.4	82.9	48.3	47.5	4.1	1534
		46.0	45.6	276.0	272.1	16 47	16 47	79.5	84.3	46.3	45.6		
		48.1	47.6	278.1	273.6	16 57	16 57	80.6	85.7	44.3	43.7		
1323	4.8	56.5	56.1	275.2	272.5	16 59	16 59	80.4	83.2	60.7	60.0	4.8	1565
		58.5	58.0	277.1	274.1	17 9	17 9	81.7	84.7	58.7	58.1		
		60.5	59.9	278.4	275.6	17 19	17 19	82.9	86.2	56.7	56.2		
513	2.8	44.7	45.7	260.0	256.1	17 2	17 2	91.5	95.8	48.9	49.3	4.8	1535
		46.7	47.5	262.2	258.1	17 12	17 12	92.0	97.6	46.9	47.4		
		48.7	49.4	264.2	260.1	17 22	17 22	94.6	99.5	44.8	45.5		
522	4.8	41.5	41.8	269.6	264.3	17 18	17 18	83.1	88.0	46.0	45.6	5.2	786
		43.6	43.7	271.0	265.8	17 28	17 28	84.3	89.5	43.9	43.7		
		45.6	45.6	272.4	267.5	17 38	17 38	85.6	91.2	41.9	41.7		
527	4.5	52.2	52.7	265.5	261.7	17 29	17 29	89.0	92.3	56.5	56.5	5.3	1570
		54.2	54.6	267.1	263.5	17 39	17 39	90.4	94.0	54.4	54.6		
		56.3	56.5	268.6	265.2	17 49	17 49	91.8	95.7	52.4	52.7		
1350	4.5	39.0	39.6	276.2	273.3	17 43	17 43	81.0	86.3	43.8	43.4	3.4	797
		41.0	41.5	277.4	274.3	17 53	17 53	82.2	87.8	41.8	41.4		
		43.0	43.4	278.6	275.3	18 3	18 3	83.3	89.3	39.8	39.4		
522	4.3	49.7	49.5	275.0	273.3	17 58	17 58	82.4	86.1	53.7	53.2	4.6	831
		51.8	51.4	276.3	272.3	18 8	18 8	83.7	87.7	51.6	51.3		
		53.8	53.3	277.5	273.3	18 18	18 18	85.0	89.2	49.6	49.4		
572	3.7	38.2	38.2	274.2	267.8	18 27	18 27	81.9	87.4	42.4	41.9	5.0	1575
		40.3	40.1	275.4	269.5	18 37	18 37	83.0	89.0	40.4	40.0		
		42.3	42.0	276.6	271.1	18 47	18 47	84.2	90.6	38.3	38.1		
572	3.7	43.7	43.3	277.4	272.2	18 54	18 54	79.0	83.6	47.7	46.9	3.1	857
		45.8	45.2	278.6	273.7	19 4	19 4	80.1	85.0	45.6	45.0		
		47.8	47.2	279.7	275.1	19 14	19 14	81.2	86.5	43.6	43.1		
578	2.3	45.9	45.7	275.2	271.2	19 7	19 7	80.8	85.0	50.0	49.0	2.6	870
		48.0	47.6	276.3	271.7	19 17	19 17	81.9	86.5	48.0	47.5		
		50.0	49.5	277.5	273.3	19 27	19 27	83.1	88.0	46.0	45.6		
618	2.8	47.6	41.5	262.6	256.9	19 25	19 25	89.1	94.1	45.0	45.2	3.7	862
		49.6	43.3	264.2	259.0	19 35	19 35	90.5	95.9	43.0	43.3		
		51.7	45.2	265.9	260.9	19 45	19 45	92.0	97.7	40.9	41.4		
618	2.8	44.7	45.2	265.0	263.9	19 45	19 45	89.4	92.8	48.7	48.8	4.6	881
		46.7	47.1	267.5	263.8	19 55	19 55	89.8	94.5	46.6	46.8		
		48.7	49.0	269.0	264.6	20 5	20 5	91.3	96.3	44.6	44.9		
1421	5.3	53.7	54.2	266.0	262.4	19 56	19 56	86.7	89.8	58.0	57.9	4.9	1004
		55.7	56.1	267.5	264.1	20 6	20 6	88.1	91.5	56.0	56.0		
		57.7	59.2	269.0	265.9	20 16	20 16	89.5	93.1	53.9	54.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT 35 LAT 40	Z. D. LAT 35 LAT 40	LAT 35 LAT 40	LAT 35 LAT 40	HRS MIN	HRS MIN	LAT 35 LAT 40	LAT 35 LAT 40	Z. D. LAT 35 LAT 40	Z. D. LAT 35 LAT 40		
613	4.5	54.0	54.8	261.8	258.3	20	7	93.6	96.7	58.1	58.5	2.9	7
		56.0	56.7	263.5	260.2	20	17	95.1	98.4	56.0	56.6		
		58.0	58.6	265.0	262.0	20	27	96.7	100.2	58.0	58.7		
613	4.5	57.0	57.7	264.2	261.1	20	22	88.8	91.5	61.4	61.4	5.2	1026
		59.1	59.6	265.8	262.8	20	32	90.2	93.2	59.3	59.5		
		61.1	61.5	267.3	264.6	20	42	91.7	94.9	57.3	57.6		
1460	4.5	40.4	40.7	270.4	264.6	20	35	82.2	87.3	44.9	44.4	2.2	1
		42.5	42.6	271.8	266.3	20	45	83.4	88.8	42.9	42.5		
		44.5	44.5	273.1	268.1	20	55	84.6	90.4	40.8	40.6		
667	3.5	38.6	38.7	271.0	265.7	20	45	83.4	88.8	42.9	42.5	2.2	1
		40.7	40.7	273.3	267.4	20	55	84.6	90.4	40.8	40.6		
		42.7	42.6	274.5	269.1	21	5	85.8	92.0	38.8	38.7		
667	3.5	41.7	41.6	273.9	268.3	21	0	81.3	86.2	45.9	45.3	4.5	19
		43.7	43.5	275.2	269.9	21	10	82.5	87.7	43.8	43.4		
		45.8	45.4	276.4	271.5	21	20	83.7	89.3	41.8	41.5		
681	3.8	39.1	39.0	274.0	267.8	21	10	80.3	85.6	43.4	42.8	3.5	20
		41.1	40.9	275.2	269.5	21	20	81.4	87.1	41.4	40.9		
		43.1	42.8	276.4	271.1	21	30	82.5	88.6	39.4	39.0		
690	3.9	41.0	41.8	263.3	257.7	21	21	89.3	94.3	45.4	45.6	4.3	27
		43.0	43.7	265.0	259.8	21	31	90.8	96.0	43.4	43.7		
		45.1	45.6	266.6	261.7	21	41	92.3	97.9	41.3	41.8		
1488	4.9	40.4	40.5	271.2	265.4	21	51	85.2	90.3	44.6	44.4	4.7	45
		42.4	42.4	272.6	267.1	22	1	86.5	91.9	42.5	42.5		
		44.5	44.3	273.0	268.8	22	11	87.8	93.7	40.5	40.6		
690	3.9	40.4	40.6	269.7	265.5	22	2	85.0	88.7	53.7	53.4	2.2	74
		51.4	51.5	271.2	267.2	22	12	86.4	90.3	51.7	51.5		
		53.5	53.4	272.5	268.8	22	22	87.7	92.0	49.6	49.6		
733	4.3	47.5	48.0	266.5	262.3	22	12	86.4	90.3	51.7	51.5	2.2	74
		49.6	49.9	268.0	263.8	22	22	87.7	92.0	49.6	49.6		
		51.6	51.8	269.5	265.5	22	32	89.1	93.6	47.6	47.7		
1488	4.9	46.9	46.6	275.4	270.7	22	23	77.9	82.0	51.1	50.2	5.4	1068
		49.0	48.6	276.7	272.3	22	33	79.0	83.4	49.1	48.3		
		51.0	50.5	277.0	273.8	22	43	80.1	84.8	47.0	46.4		
1488	4.9	40.6	40.1	277.0	272.8	22	36	79.7	83.4	53.8	53.1	3.7	100
		51.6	51.0	278.2	274.3	22	46	80.9	84.8	51.8	51.2		
		53.6	53.0	279.4	275.7	22	56	82.1	86.3	49.8	49.3		
1491	4.4	55.4	55.6	268.0	265.3	22	46	86.2	89.2	59.7	59.5	4.5	114
		57.4	57.5	270.2	267.0	22	56	87.6	90.8	57.6	57.5		
		59.5	59.4	271.6	268.7	23	6	89.0	92.4	55.6	55.6		
1523	4.7	39.1	39.2	272.2	266.1	23	2	82.3	87.6	43.2	42.7	5.4	1068
		41.2	41.1	273.5	267.8	23	12	83.4	89.2	41.2	40.8		
		43.2	43.0	274.8	269.5	23	22	84.6	90.8	39.1	38.9		
1513	4.5	50.0	50.7	263.7	259.6	23	12	89.8	93.4	54.3	54.5	4.5	114
		52.1	52.6	265.3	261.4	23	22	91.3	95.1	52.3	52.6		
		54.1	54.5	266.8	263.2	23	32	92.8	96.9	50.2	50.7		
752	3.7	47.8	48.5	265.1	260.6	23	24	91.6	95.5	51.9	52.2	4.5	114
		49.9	50.3	266.6	262.5	23	34	93.1	97.3	49.8	50.3		
		51.9	52.2	268.1	264.2	23	44	94.6	99.1	47.8	48.4		
752	3.7	52.5	52.8	268.6	264.8	23	47	84.8	88.1	56.9	56.6	4.5	1112
		54.6	54.7	270.0	266.5	23	57	86.2	89.7	54.8	54.7		
		56.6	56.6	271.4	268.1	24	7	87.5	91.3	52.8	52.7		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 40	LAT 45	LAT 40	LAT 45	HRS	MIN	LAT 40	LAT 45	LAT 40	LAT 45		
1534	4.1	43.5	43.3	274.1	268.8	23	59	80.7	85.4	47.2	46.6	2.9	144
		45.4	45.1	275.6	270.6	0	9	82.1	87.0	45.3	44.8		
		47.3	46.9	277.0	272.3	0	19	83.4	89.7	43.4	43.1		
1539	4.8	48.4	49.2	263.4	259.1	0	9	91.7	95.5	52.4	52.7	4.5	1112
		50.4	51.0	265.2	261.1	0	19	93.3	97.4	50.4	50.9		
		52.3	52.7	266.9	263.1	0	29	95.1	99.4	48.5	49.2		
797	3.4	39.2	39.4	270.5	264.4	0	20	83.5	88.9	43.2	42.9	2.9	144
		41.1	41.2	272.1	266.3	0	30	84.9	90.7	41.3	41.1		
		43.0	43.0	273.6	268.2	0	40	86.4	92.5	39.4	39.4		
1539	4.8	54.2	54.5	268.6	265.1	0	39	87.6	90.7	58.1	58.0	4.7	184
		56.1	56.2	270.2	266.8	0	49	89.2	92.5	56.1	56.2		
		58.0	58.0	271.8	268.6	0	59	90.8	94.4	54.2	54.4		
797	3.4	45.0	44.7	275.0	270.0	0	50	77.6	82.0	48.8	48.6	2.9	181
		46.9	46.5	276.4	271.7	1	0	78.9	83.6	47.0	46.2		
		48.8	48.3	277.8	273.4	1	10	80.2	85.2	45.1	44.4		
1570	5.3	49.0	49.9	260.8	256.6	1	5	91.7	95.5	53.1	53.4	4.7	184
		50.9	51.7	262.6	258.6	1	15	93.4	97.4	51.2	51.6		
		52.8	53.4	264.4	260.7	1	25	95.1	99.4	49.3	49.9		
804	4.3	53.7	54.2	266.0	262.4	1	16	89.4	91.5	57.8	57.9	3.0	211
		55.7	56.0	267.7	264.3	1	26	90.0	93.4	55.9	56.1		
		57.6	57.8	269.4	266.2	1	36	91.6	95.2	54.0	54.3		
1575	5.0	45.0	44.8	275.0	269.9	1	27	78.9	83.3	49.0	48.3	4.9	1151
		46.9	46.6	276.4	271.7	1	37	80.2	84.9	47.2	46.5		
		48.8	48.3	277.8	273.4	1	47	81.5	86.5	45.3	44.7		
804	4.3	57.9	57.9	269.5	266.4	1	37	83.3	86.1	61.7	61.2	3.2	241
		59.7	59.7	271.1	268.2	1	47	84.8	87.8	59.8	59.5		
		61.6	61.5	272.7	270.3	1	57	86.4	90.5	57.9	57.7		
1565	4.9	57.1	56.0	274.5	271.3	1	53	80.1	82.0	61.1	61.4	3.2	254
		59.0	58.7	276.0	273.0	2	3	81.6	84.6	59.3	58.7		
		60.9	60.4	277.5	274.7	2	13	83.0	86.2	57.4	56.9		
870	2.6	38.8	39.4	266.2	260.1	2	3	90.4	94.8	42.7	42.8	1.9	202
		40.7	41.1	267.0	262.2	2	13	91.0	96.7	40.7	41.1		
		42.6	42.9	268.6	264.2	2	23	92.6	98.8	38.8	39.3		
870	2.6	43.2	43.4	270.0	264.7	2	26	84.3	89.0	47.2	46.9	4.5	1168
		45.1	45.2	271.6	266.6	2	36	85.8	90.7	45.3	45.1		
		47.0	46.9	273.2	268.5	2	46	87.2	92.5	43.4	43.4		
831	4.1	57.7	57.2	277.4	274.0	2	38	77.5	80.2	61.5	60.5	4.2	1196
		59.6	59.0	278.8	275.9	2	48	78.8	81.8	59.6	58.8		
		61.5	60.7	280.3	277.5	2	58	80.2	83.4	57.7	57.0		
880	4.7	46.7	47.0	265.8	261.2	2	49	88.4	92.6	50.5	50.5	3.2	254
		48.6	49.0	267.5	263.2	2	59	89.0	94.4	48.6	48.8		
		50.5	50.7	269.0	265.1	3	9	90.7	96.3	46.7	47.0		
881	4.6	46.3	47.0	265.0	260.3	2	51	88.9	92.9	50.1	50.2	3.2	254
		48.2	48.7	266.7	262.3	3	1	90.4	94.8	48.2	48.4		
		50.1	50.5	268.4	264.2	3	11	92.0	96.7	46.3	46.7		
880	4.7	48.6	49.0	267.5	263.2	2	59	89.1	91.9	52.6	52.6	5.2	1182
		50.5	50.7	269.0	265.1	3	9	90.7	93.8	50.7	50.8		
		52.4	52.5	270.0	267.0	3	19	91.3	95.6	48.8	49.1		
881	4.6	48.2	48.7	266.7	262.3	3	1	89.4	92.3	52.2	52.2	5.2	1182
		50.1	50.5	268.4	264.2	3	11	90.0	94.1	50.3	50.5		
		52.1	52.2	270.0	266.1	3	21	91.6	96.0	48.4	48.7		
1620	4.8	42.8	43.5	264.7	259.4	3	17	91.8	96.5	46.5	46.8	3.2	254
		44.7	45.3	266.4	261.4	3	27	93.5	98.5	44.6	45.1		
		46.6	47.0	268.1	263.4	3	37	95.3	100.6	42.6	43.3		
880	4.7	52.6	52.7	271.0	267.1	3	27	84.7	89.0	56.5	56.2	3.7	294
		54.5	54.4	272.5	269.0	3	37	86.2	89.8	54.6	54.4		
		56.4	56.2	274.1	270.7	3	47	87.7	91.5	52.7	52.7		
881	4.6	52.2	52.4	270.2	266.3	3	22	85.0	88.4	56.1	55.8	3.7	294
		54.2	54.2	271.8	268.1	3	32	86.5	90.1	54.2	54.1		
		56.1	55.9	273.3	269.9	3	42	88.0	91.9	52.3	52.3		
1620	4.3	47.2	47.5	268.6	264.0	3	33	85.3	89.3	51.1	50.8	4.2	1196
		49.1	49.3	270.2	265.9	3	43	86.8	91.1	49.2	49.1		
		51.0	51.1	271.8	267.8	3	53	88.3	92.9	47.3	47.3		
1620	4.8	49.5	49.6	270.6	266.3	3	45	82.0	85.7	53.6	53.0	5.0	305
		51.4	51.4	272.1	268.1	3	55	83.4	87.4	51.7	51.3		
		53.3	53.2	273.7	269.9	4	5	84.9	89.1	49.6	49.5		
27	4.3	42.6	43.5	262.9	257.7	3	56	88.8	93.5	46.7	46.8	4.2	1196
		44.5	45.2	264.8	259.8	4	6	90.4	95.4	44.6	45.0		
		46.4	46.9	266.5	261.8	4	16	92.0	97.3	42.8	43.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 40	LAT 45	HRS	MIN	LAT 40	LAT 45	Z.D.	Z.D.		
1004	4.9	54.2	54.6	267.0	263.5	4	12	89.1	92.2	58.0	58.1	5.5	321
		56.1	56.4	268.7	265.3	4	22	90.7	94.1	56.1	56.3		
		58.0	58.1	270.3	267.2	4	32	92.4	96.0	54.2	54.5		
1629	4.8	57.7	57.2	277.1	273.9	4	28	78.3	81.0	61.6	60.7	4.6	1244
		59.6	59.0	278.5	275.6	4	38	79.7	82.6	59.7	59.0		
		61.5	60.8	280.0	277.2	4	48	81.1	84.2	57.9	57.2		
45	4.7	42.9	43.3	268.4	263.1	4	38	88.0	92.7	46.9	46.9	5.2	1217
		44.8	45.0	270.1	265.1	4	48	89.6	94.6	45.0	45.2		
		46.7	46.8	271.6	266.9	4	58	91.2	96.5	43.1	43.4		
27	4.3	53.3	53.3	272.4	269.6	4	52	81.6	84.6	57.1	56.5	4.6	1244
		55.2	55.0	273.9	270.4	5	2	83.1	86.6	55.2	54.7		
		57.1	56.8	275.4	272.2	5	12	84.5	88.3	53.3	53.0		
27	4.3	56.0	55.8	274.5	271.1	5	6	79.8	82.7	59.9	59.1	4.1	371
		57.9	57.5	276.0	272.8	5	16	81.2	84.4	58.0	57.3		
		59.8	59.3	277.5	274.5	5	26	82.7	86.0	56.1	55.6		
66	2.7	47.4	48.3	261.7	257.2	5	18	92.3	96.2	51.5	51.8	5.2	1239
		49.3	50.0	263.5	259.3	5	28	94.0	98.2	49.6	50.1		
		51.2	51.8	265.3	261.3	5	38	95.7	100.2	47.7	48.1		
74	2.2	45.8	46.4	264.6	259.8	5	30	87.2	91.5	49.9	49.8	4.6	1244
		47.7	48.2	266.3	261.8	5	40	88.8	93.3	47.9	48.0		
		49.6	49.9	268.0	263.8	5	50	90.4	95.2	46.0	46.3		
74	2.2	49.6	49.1	267.2	262.8	5	45	88.9	92.7	52.3	52.4	3.1	367
		50.5	50.8	268.0	264.8	5	55	90.5	94.6	50.4	50.6		
		52.5	52.6	270.5	266.6	6	5	92.1	96.5	48.5	48.9		
74	2.2	51.7	51.9	269.8	265.9	6	1	86.9	90.4	55.4	55.3	3.7	384
		53.6	53.6	271.4	267.7	6	11	88.5	92.2	53.5	53.5		
		55.5	55.4	273.0	269.5	6	21	90.1	94.0	51.5	51.7		
89	5.4	49.0	49.6	265.1	260.8	6	14	89.0	92.7	52.9	53.0	3.7	384
		50.9	51.3	266.3	262.8	6	24	90.6	94.6	51.0	51.2		
		52.8	53.1	268.5	264.7	6	34	92.2	96.5	49.0	49.4		
1089	5.1	45.7	46.7	260.4	255.7	6	35	91.5	95.7	49.8	50.1	3.7	384
		47.6	48.4	262.3	257.9	6	40	93.2	97.7	47.9	48.4		
		49.5	50.2	264.1	259.9	6	50	95.0	99.7	46.0	46.6		
1089	5.1	48.3	49.1	263.0	258.7	6	44	89.7	93.6	52.4	52.5	5.1	405
		50.2	50.9	264.8	260.7	6	54	91.3	95.4	50.5	50.8		
		52.1	52.6	266.5	262.7	7	4	93.0	97.4	48.6	49.0		
114	4.5	52.8	53.4	265.0	261.3	7	0	90.0	93.3	56.7	56.8	2.6	422
		54.7	55.1	266.8	263.3	7	10	91.7	95.2	54.8	55.1		
		56.6	56.9	268.4	265.1	7	20	93.3	97.1	52.9	53.2		
144	2.9	42.7	42.4	276.1	270.6	7	23	79.0	83.7	46.7	46.9	3.7	425
		44.6	44.2	277.4	272.3	7	33	80.2	85.3	44.8	44.2		
		46.5	45.9	278.9	274.0	7	43	81.5	86.9	42.9	42.4		
136	3.8	53.5	53.5	272.3	269.6	7	50	82.0	85.2	57.3	56.7	4.8	1318
		55.4	55.2	273.9	270.4	8	0	83.4	86.9	55.4	54.9		
		57.3	57.0	275.4	272.2	8	10	84.0	88.6	53.5	53.2		
139	3.0	53.2	53.2	272.1	269.3	7	51	82.1	85.4	57.1	56.5	4.8	1318
		55.1	54.9	273.6	270.1	9	1	83.6	87.0	55.2	54.8		
		57.0	56.7	275.1	271.9	9	11	85.0	88.8	53.3	53.0		
142	3.8	53.1	53.1	271.0	268.2	7	52	82.2	85.5	56.9	56.4	4.8	1318
		55.0	54.9	273.5	270.0	8	2	83.7	87.2	55.0	54.6		
		56.9	56.6	275.0	271.7	8	12	85.2	88.9	53.1	52.8		
1112	4.5	54.3	54.4	270.0	266.4	8	8	86.0	89.1	58.0	57.7	4.8	1323
		56.2	56.2	271.6	268.2	9	18	87.5	90.9	56.0	56.0		
		58.1	58.0	273.1	270.0	8	28	89.1	92.7	54.1	54.2		
168	1.1	54.0	55.0	261.3	257.8	9	21	92.1	95.2	58.0	58.3	5.2	473
		55.9	56.7	263.1	259.8	9	31	93.8	97.1	56.1	56.5		
		57.9	58.4	264.8	261.7	9	41	95.5	99.0	54.1	54.8		
184	4.7	48.7	49.4	264.4	260.1	9	36	90.4	94.2	52.6	52.8	4.8	1323
		50.6	51.1	266.1	262.1	9	46	92.0	96.1	50.7	51.0		
		52.5	52.9	267.8	264.0	9	56	93.7	98.0	48.8	49.3		
1151	4.9	40.3	41.2	274.0	269.0	9	50	80.3	85.4	44.4	43.8	5.4	1322
		42.3	41.9	276.3	270.8	9	0	81.5	87.0	42.5	42.0		
		44.2	43.7	277.7	272.5	9	10	82.9	88.7	40.6	40.3		
1158	4.5	42.6	42.9	269.9	263.5	9	11	87.8	92.5	46.5	46.5	5.1	1332
		44.5	44.6	270.5	265.4	9	21	89.3	94.4	44.6	44.8		
		46.4	46.4	272.1	267.3	9	31	90.9	96.3	42.7	43.0		
1158	4.5	44.5	44.6	270.5	265.4	9	21	85.8	90.3	48.3	48.1	4.3	492
		46.4	46.4	272.1	267.3	9	31	87.3	92.1	46.4	46.4		
		48.3	48.2	273.6	269.1	9	41	88.9	94.0	44.5	44.6		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 40	LAT 45	LAT 40	LAT 45	HRS	MIN	LAT 40	LAT 45	LAT 40	LAT 45		
254	3.2	40.1	41.0	262.2	256.5	9	42	89.0	94.2	44.3	44.4	4.3	492
		42.0	42.7	264.1	258.7	9	52	90.6	96.1	42.4	42.7		
		43.9	44.5	265.9	260.8	10	2	92.3	98.1	40.5	40.9		
1158	4.5	51.3	51.0	275.9	271.9	9	57	77.0	80.4	55.4	54.4	3.8	534
		53.3	52.8	277.4	273.6	10	7	78.3	82.0	53.5	52.7		
		55.1	54.5	278.9	275.3	10	17	79.6	83.6	51.6	50.9		
1168	4.5	48.9	48.5	276.9	272.6	10	11	78.8	82.6	52.8	52.0	3.8	534
		50.8	50.2	278.3	274.2	10	21	80.2	84.3	50.9	50.2		
		52.7	52.0	279.7	275.9	10	31	81.5	85.5	49.0	48.4		
1163	4.5	49.3	48.8	277.2	272.9	10	13	79.4	83.2	53.2	52.5	4.5	1380
		51.2	50.6	278.6	274.6	10	23	80.8	84.8	51.4	50.7		
		53.0	52.3	280.0	276.2	10	33	82.1	86.4	49.5	48.7		
1163	4.3	56.4	56.2	273.5	271.2	10	22	81.1	84.0	60.3	59.6	5.0	1396
		58.3	58.0	275.1	271.9	10	32	82.5	85.6	58.4	57.9		
		60.2	59.7	276.5	273.6	10	42	84.0	87.3	56.5	56.1		
1182	5.2	47.7	48.1	267.8	263.3	10	38	85.2	89.2	51.8	51.5	4.9	1383
		49.7	49.9	269.5	265.2	10	48	86.7	90.9	49.9	49.8		
		51.6	51.6	271.1	267.1	10	58	88.2	92.7	48.0	48.0		
1182	5.2	49.7	49.9	269.5	265.2	10	48	83.1	86.8	53.7	53.2	4.7	557
		51.6	51.6	271.1	267.1	10	58	84.6	88.6	51.8	51.5		
		53.5	53.4	272.6	268.7	11	8	86.1	90.3	49.9	49.7		
294	3.7	43.6	44.3	264.4	259.3	10	59	88.4	92.9	47.8	47.8	4.9	1383
		45.5	46.1	266.2	261.3	11	9	89.9	94.8	45.9	46.1		
		47.4	47.8	267.9	263.3	11	19	91.6	96.7	43.9	44.3		
294	3.7	45.5	46.1	266.2	261.3	11	9	86.2	90.5	49.7	49.5	4.7	557
		47.4	47.8	267.9	263.3	11	19	87.7	92.3	47.8	47.8		
		49.3	49.6	269.5	265.2	11	29	89.3	94.2	45.8	46.0		
277	3.7	57.2	57.8	269.4	261.2	11	20	90.0	92.8	60.9	61.1	4.3	584
		59.1	59.6	266.1	263.1	11	30	91.6	94.6	59.0	59.2		
		61.0	61.3	267.8	265.0	11	40	93.3	96.5	57.1	57.5		
305	5.0	44.7	44.8	271.1	266.9	11	33	83.9	88.3	48.5	48.1	3.7	572
		46.6	46.6	272.6	267.9	11	43	85.3	90.0	46.6	46.4		
		48.5	48.3	274.1	269.7	11	53	86.8	91.8	44.7	44.6		
1267	5.0	49.2	49.2	273.1	268.8	11	44	83.7	87.4	53.2	52.8	4.2	593
		51.1	50.9	274.6	270.6	11	54	85.1	89.1	51.3	51.0		
		53.1	52.7	276.1	272.3	12	4	86.6	90.9	49.4	49.7		
328	4.2	49.3	49.7	269.1	263.3	11	56	87.2	92.4	44.1	44.1	3.7	572
		47.3	47.4	271.7	265.2	12	6	89.8	94.3	42.2	42.3		
		44.2	44.2	272.7	267.1	12	16	90.3	96.2	40.3	40.6		
294	3.7	56.6	56.3	275.4	272.1	12	7	81.4	84.3	60.3	59.7	5.2	1440
		58.5	58.1	276.9	273.8	12	17	82.9	86.0	58.4	57.9		
		60.4	59.9	278.3	275.5	12	27	84.3	87.7	56.5	56.2		
321	5.5	51.9	52.4	265.6	261.7	12	19	89.6	93.0	55.7	55.8	2.8	618
		53.9	54.2	267.3	263.6	12	29	91.2	94.9	53.8	54.0		
		55.7	55.9	268.9	265.5	12	39	92.9	96.8	51.8	52.3		
1244	4.6	49.7	49.4	269.9	259.1	12	29	90.5	95.6	44.6	44.9	4.2	593
		47.6	43.1	266.6	261.2	12	39	92.2	97.5	42.7	43.1		
		44.5	44.9	268.3	263.3	12	49	93.9	99.6	40.8	41.3		
328	4.2	48.6	48.3	275.7	271.2	12	39	78.2	82.0	52.6	51.8	3.9	634
		50.5	50.0	277.1	273.7	12	49	79.5	83.6	50.8	50.0		
		52.4	51.8	278.6	274.6	12	59	80.9	85.3	48.9	48.3		
367	3.1	45.7	45.7	264.7	259.8	13	6	90.4	94.7	49.1	49.3	5.2	1440
		46.9	47.4	266.8	261.8	13	16	92.0	96.6	47.1	47.5		
		48.8	49.2	268.1	263.8	13	26	93.7	98.6	45.2	45.8		
367	3.1	47.3	47.7	266.9	262.2	13	18	88.4	92.4	51.1	51.2	3.2	641
		49.2	49.5	268.5	264.2	13	28	89.9	94.3	49.2	49.4		
		51.1	51.3	270.1	266.1	13	38	91.6	96.2	47.3	47.6		
384	3.7	44.4	45.2	263.6	258.6	13	33	91.8	95.2	48.2	48.5	3.2	641
		46.3	47.1	265.4	260.7	13	43	93.4	97.1	46.3	46.8		
		48.3	48.7	267.1	262.7	13	53	94.1	99.2	44.4	45.0		
371	4.1	49.9	49.9	272.6	268.3	13	45	80.4	84.1	54.0	53.3	3.8	661
		51.8	51.6	274.1	270.1	13	55	81.9	85.7	52.1	51.5		
		53.7	53.4	275.6	271.9	14	5	83.2	87.4	50.2	49.8		
367	3.1	55.5	55.3	273.7	270.2	14	1	79.5	82.5	59.3	58.5	4.9	1488
		57.4	57.1	275.2	272.0	14	11	80.9	84.1	57.4	56.8		
		59.3	58.9	276.7	273.7	14	21	82.3	85.8	55.5	55.0		
394	3.7	57.2	57.0	274.6	271.3	14	40	80.9	83.7	61.1	60.4	4.6	1508
		59.2	58.8	276.1	273.1	14	50	82.4	85.4	59.2	58.7		
		61.1	60.5	277.5	274.8	15	0	83.8	87.0	57.3	56.9		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 40	LAT 45	LAT 40	LAT 45	HRS	MIN	LAT 40	LAT 45	LAT 40	LAT 45		
405	5.1	54.7	54.7	272.2	268.7	14	53	82.8	85.9	58.6	58.1	4.6	1508
		56.7	56.5	273.8	270.5	15	3	84.3	87.6	56.7	56.4		
		58.6	58.2	275.3	272.2	15	13	85.8	89.3	54.8	54.6		
423	3.4	57.6	58.3	263.2	261.1	15	15	89.1	91.9	61.5	61.5	3.8	743
		59.5	60.1	264.9	262.0	15	25	90.7	93.7	59.6	59.8		
		61.4	61.8	266.6	263.9	15	35	92.4	95.5	57.7	58.0		
1318	4.8	41.4	42.1	265.0	259.4	15	30	87.2	92.2	45.3	45.3	5.5	1498
		43.3	43.8	266.7	261.5	15	40	88.7	94.0	43.4	43.5		
		45.2	45.6	268.4	263.5	15	50	90.3	96.0	41.5	41.7		
1319	4.8	43.9	44.4	267.2	262.1	15	43	86.4	90.9	47.8	47.6	3.2	732
		45.8	46.1	268.9	264.1	15	53	87.9	92.7	45.8	45.9		
		47.7	47.9	270.5	265.0	16	3	89.4	94.6	43.9	44.1		
1304	4.5	57.1	57.2	269.8	265.6	16	1	85.9	88.7	60.9	60.7	4.6	1539
		59.0	59.1	271.4	268.4	16	11	87.4	90.4	59.0	58.9		
		60.9	60.8	273.0	270.2	16	21	89.0	92.2	57.1	57.2		
1323	4.8	48.9	49.2	266.4	262.8	16	12	87.4	91.3	52.7	52.7	5.5	760
		50.7	51.1	268.0	264.3	16	22	89.0	93.1	50.8	50.9		
		52.7	52.9	269.7	265.9	16	32	90.6	94.9	48.9	49.1		
1332	5.1	45.7	45.7	271.6	265.7	16	26	81.4	85.6	49.6	49.0	4.1	1534
		47.6	47.5	273.1	265.5	16	36	82.7	87.3	47.7	47.2		
		49.5	49.3	274.6	270.3	16	46	84.1	89.0	45.8	45.5		
492	4.3	43.5	43.7	270.3	265.1	16	36	82.7	87.3	47.7	47.2	4.1	1534
		45.5	45.5	271.9	264.3	16	46	84.1	89.0	45.8	45.5		
		47.4	47.3	273.4	269.9	16	56	85.6	90.8	43.9	43.7		
1332	5.1	49.9	49.6	274.9	270.6	16	48	78.6	82.3	53.7	52.9	3.4	797
		51.8	51.4	276.2	272.4	16	58	80.0	83.9	51.8	51.1		
		53.7	53.2	277.8	274.1	17	8	81.3	85.6	49.9	49.4		
492	4.3	47.8	47.6	273.7	269.2	16	58	80.0	83.9	51.8	51.1	3.4	797
		49.7	49.4	275.2	271.3	17	8	81.3	85.6	49.9	49.4		
		51.6	51.2	276.7	272.7	17	18	82.7	87.2	48.0	47.6		
432	4.3	51.4	51.0	276.5	272.5	17	17	77.7	81.1	55.2	54.3	5.0	1575
		53.3	52.7	277.9	274.2	17	27	79.0	82.7	53.3	52.5		
		55.2	54.5	279.3	275.8	17	37	80.3	84.3	51.4	50.8		
507	4.5	52.7	53.6	261.7	258.8	17	29	92.3	95.6	56.5	56.9	5.3	1570
		54.6	55.3	263.5	260.3	17	39	94.0	97.5	54.6	55.1		
		56.5	57.1	265.2	262.0	17	49	95.7	99.4	52.7	53.3		
1380	4.5	39.4	39.7	273.1	264.0	17	42	86.1	91.4	43.5	43.4	3.4	797
		41.3	41.4	274.7	265.3	17	52	87.6	93.2	41.5	41.6		
		43.2	43.2	276.2	267.9	18	2	89.2	95.2	39.6	39.8		
534	3.3	44.3	44.0	275.0	265.8	18	6	79.3	82.5	49.4	47.5	4.4	835
		46.2	45.8	276.4	271.6	18	16	79.3	84.0	46.5	45.8		
		48.1	47.6	277.8	273.3	18	26	80.6	85.7	44.6	44.0		
1395	5.0	42.5	43.3	268.3	259.9	18	18	90.8	95.5	46.4	46.7	5.1	823
		44.4	45.0	269.9	261.3	18	28	92.5	97.5	44.5	44.9		
		46.4	46.8	271.7	263.0	18	38	94.2	99.5	42.6	42.2		
1380	4.5	49.2	47.9	276.9	272.5	19	28	80.0	84.0	51.8	51.1	3.1	857
		51.1	49.6	278.3	274.1	19	38	81.4	85.6	49.9	49.4		
		52.0	51.3	279.7	275.8	19	48	82.7	87.3	48.0	47.6		
576	4.0	33.2	33.3	272.0	265.7	18	38	82.1	87.6	42.3	41.9	4.4	835
		35.2	35.1	273.5	267.6	18	48	83.5	89.4	40.4	40.1		
		37.1	37.0	274.9	269.4	18	58	84.8	91.1	38.5	38.4		
572	3.7	43.1	43.2	272.0	266.7	18	53	83.4	88.1	47.1	46.7	3.1	857
		45.0	45.0	273.5	268.5	19	3	84.9	89.8	45.2	45.0		
		47.0	46.7	275.0	270.3	19	13	86.3	91.6	43.3	43.2		
573	2.3	45.7	45.9	270.2	265.3	19	7	85.0	89.3	49.4	49.2	2.6	870
		47.6	47.7	271.7	267.2	19	17	86.5	91.0	47.5	47.4		
		49.5	49.4	273.3	269.3	19	27	88.0	92.9	45.6	45.6		
593	4.2	43.3	43.7	268.4	263.2	19	18	86.6	91.2	47.3	47.2	2.6	870
		45.3	45.5	270.0	265.1	19	28	88.1	93.1	45.4	45.5		
		47.2	47.2	271.6	267.9	19	38	89.7	95.0	43.5	43.7		
578	2.3	51.4	51.2	274.8	270.8	19	37	79.0	82.5	55.5	54.7	2.2	1
		53.3	53.0	276.2	272.5	19	47	80.4	84.1	53.6	52.9		
		55.2	54.7	277.7	274.2	19	57	81.8	85.7	51.7	51.1		
593	4.2	49.3	49.2	273.7	269.3	19	49	80.7	84.4	53.2	52.6	2.2	1
		51.2	50.9	274.8	270.3	19	59	82.1	86.1	51.3	50.8		
		53.1	52.7	276.3	272.5	20	9	83.5	87.8	49.4	49.0		
593	4.2	52.1	51.8	275.5	271.6	20	4	78.4	81.8	55.9	55.1	4.5	15
		54.0	53.6	277.0	273.4	20	14	79.7	83.4	54.1	53.3		
		55.9	55.4	278.4	275.3	20	24	81.1	85.0	52.2	51.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 40	LAT 45	HRS	MIN	LAT 40	LAT 45	Z. D.	Z. D.		
618	2.9	52.7	53.0	267.8	264.1	20	24	85.1	88.4	56.5	56.2	4.3	27
		54.6	54.8	269.5	265.9	20	34	86.6	90.2	54.6	54.4		
		56.5	56.5	271.1	267.8	20	44	88.2	92.0	52.7	52.7		
1460	4.5	47.5	41.2	264.4	258.7	20	34	87.1	92.2	44.6	44.6	2.2	1
		42.4	43.0	266.2	260.8	20	44	88.6	94.1	42.7	42.8		
		44.3	44.7	267.9	262.8	20	54	90.2	96.0	40.8	41.1		
667	3.5	38.7	39.4	265.7	259.6	20	45	88.8	94.2	42.5	42.7	2.2	1
		40.7	41.1	267.4	261.7	20	55	90.4	96.2	40.6	40.9		
		42.6	42.9	269.1	263.7	21	5	92.0	98.2	38.7	39.2		
667	3.5	41.4	41.8	268.1	262.5	20	59	86.1	91.4	45.5	45.4	4.5	19
		43.3	43.6	269.8	264.5	21	9	87.6	92.8	43.6	43.6		
		45.2	45.3	271.3	266.4	21	19	89.1	94.7	41.7	41.9		
681	3.3	39.0	39.4	267.9	261.7	21	10	85.6	91.0	42.8	42.7	3.5	20
		40.9	41.2	269.5	263.7	21	20	87.1	92.9	40.9	40.9		
		42.8	43.0	271.1	265.7	21	30	88.6	94.8	39.0	39.1		
674	3.9	43.1	43.2	272.1	266.8	21	23	83.8	88.5	46.9	46.5	4.7	43
		45.0	44.9	273.6	268.6	21	33	85.2	90.3	45.0	44.8		
		46.9	46.7	275.1	270.4	21	43	86.7	92.1	43.1	43.0		
667	3.5	48.5	48.4	273.9	269.5	21	36	89.5	84.3	52.5	51.8	3.6	64
		50.4	50.1	275.4	271.3	21	46	81.8	86.0	50.6	50.1		
		52.3	51.9	276.9	273.7	21	56	83.2	87.6	48.7	48.3		
681	3.3	46.3	46.1	273.8	269.0	21	48	82.1	86.3	50.2	49.7	3.6	64
		48.2	47.9	275.3	270.8	21	58	83.5	88.0	48.3	48.0		
		50.1	49.7	276.7	272.5	22	8	84.9	89.7	46.4	46.2		
1467	4.5	56.5	56.0	277.7	274.4	21	58	78.0	82.9	60.2	59.7	3.7	100
		58.4	57.8	279.1	276.1	22	8	79.4	82.5	58.4	57.6		
		60.3	59.5	280.6	277.7	22	18	80.8	84.2	56.5	55.8		
1468	5.5	54.2	53.8	275.9	272.2	22	19	79.7	82.8	58.0	57.2	3.7	100
		56.1	55.6	277.3	273.9	22	29	81.1	84.5	56.1	55.5		
		58.0	57.3	278.7	275.5	22	39	82.5	86.1	54.2	53.7		
713	3.3	47.8	40.5	276.1	270.2	22	20	77.6	82.6	44.8	44.5	3.1	75
		42.7	42.2	277.4	272.0	22	30	78.8	84.2	43.0	42.2		
		44.6	44.0	278.7	273.6	22	40	80.0	85.7	41.1	40.5		
1488	4.9	48.4	48.4	272.1	267.7	22	32	83.3	87.1	52.4	51.9	4.6	94
		50.3	50.1	273.7	269.5	22	42	84.7	88.9	50.5	50.2		
		52.2	51.9	275.2	271.3	22	52	86.2	90.6	48.5	48.4		
1491	4.4	55.6	56.2	265.3	262.0	22	46	89.2	92.1	59.5	59.5	4.5	114
		57.5	57.9	267.0	263.9	22	56	90.8	93.9	57.5	57.7		
		59.4	59.7	268.7	265.8	23	6	92.4	95.8	55.6	55.0		
1527	4.7	39.0	39.6	265.9	259.8	23	1	87.5	92.8	42.9	43.0	5.4	1068
		41.9	41.4	267.6	261.9	23	11	89.0	94.7	41.0	41.2		
		42.9	43.1	269.3	263.9	23	21	90.6	96.7	39.1	39.4		
743	3.8	47.7	51.7	269.2	256.1	23	16	92.2	95.9	53.6	53.9	5.0	1089
		51.6	52.4	262.1	258.2	23	26	93.9	97.8	51.7	52.2		
		53.5	54.1	263.9	261.2	23	36	95.6	99.8	49.8	50.4		
752	3.7	48.8	49.8	261.0	256.8	23	26	92.7	96.5	52.8	53.2	5.2	1094
		50.7	51.5	262.8	258.8	23	36	94.4	98.4	50.9	51.5		
		52.6	53.3	264.6	260.8	23	46	96.2	100.4	49.0	49.7		
752	3.7	52.6	53.3	264.6	260.8	23	46	88.0	91.2	56.8	56.7	4.5	1112
		54.5	55.0	266.3	262.8	23	56	89.5	93.1	54.8	55.0		
		56.4	56.8	268.0	264.7	24	6	91.2	94.9	52.9	53.2		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.				HRS	MIN			Z.D.			
		LAT 45	LAT 50	LAT 45	LAT 50			LAT 45	LAT 50	LAT 45	LAT 50		
743	3.8	57.6	58.3	264.1	261.0	23	56	91.3	94.1	61.1	61.3	3.6	164
		59.4	59.9	266.0	263.1	0	6	93.1	96.0	59.3	59.7		
		61.2	61.5	267.8	265.1	0	16	95.0	98.1	57.6	58.1		
789	2.6	40.0	40.0	272.0	266.0	0	8	81.4	86.6	43.8	43.2	4.1	148
		41.7	41.7	273.6	268.0	0	18	82.9	88.4	42.0	41.6		
		43.5	43.3	275.3	270.0	0	28	84.4	90.3	40.3	40.0		
757	3.4	39.3	40.0	264.2	258.2	0	19	88.7	94.1	43.1	43.2	2.9	144
		41.0	41.6	266.1	260.5	0	29	90.5	96.1	41.3	41.6		
		42.8	43.2	268.0	262.7	0	39	92.3	98.3	39.5	40.0		
1523	4.7	55.5	55.1	276.3	272.9	0	31	79.1	82.1	59.0	58.2	1.8	202
		57.3	56.7	278.0	274.7	0	41	80.7	83.9	57.3	56.6		
		59.0	58.3	279.6	276.5	0	51	82.3	85.7	55.5	55.0		
757	3.4	44.4	44.6	269.6	264.5	0	48	81.7	86.2	48.3	47.8	2.9	181
		46.1	46.2	271.4	266.6	0	58	83.3	88.0	46.5	46.2		
		47.9	47.8	273.1	268.6	1	8	84.8	89.9	44.8	44.6		
786	5.2	50.7	50.7	272.2	268.1	0	58	83.4	87.0	54.3	53.9	1.8	202
		52.4	52.3	273.9	270.2	1	8	85.0	88.9	52.5	52.3		
		54.2	53.9	275.6	271.9	1	18	86.7	90.8	50.8	50.7		
804	4.3	54.2	55.1	262.4	258.9	1	16	91.5	94.7	57.8	58.1	3.0	211
		56.0	56.6	264.3	261.0	1	26	93.4	96.7	56.1	56.5		
		57.8	58.2	266.2	263.1	1	36	95.2	98.7	54.3	54.9		
1575	5.0	44.6	44.9	269.8	264.7	1	26	83.1	87.6	48.4	48.0	4.9	1151
		46.4	46.5	271.5	266.7	1	36	84.7	89.4	46.7	46.6		
		48.2	49.1	273.2	268.7	1	46	86.3	91.4	44.9	44.8		
804	4.3	57.8	58.2	266.2	263.1	1	36	85.9	88.6	61.4	61.2	3.2	241
		59.5	59.8	268.0	265.1	1	46	87.6	90.5	59.6	59.5		
		61.3	61.4	269.8	267.1	1	56	89.3	92.5	57.9	57.9		
1565	4.8	56.9	56.9	271.3	268.0	1	53	82.9	85.8	60.4	59.9	3.2	254
		58.7	58.5	273.0	270.0	2	3	84.6	87.6	58.7	58.3		
		60.4	60.1	274.7	271.9	2	13	86.2	89.5	56.9	56.7		
823	5.1	56.8	56.6	274.7	271.5	2	24	78.8	81.6	60.6	59.8	3.9	282
		58.6	58.2	276.4	273.3	2	34	80.4	83.4	58.9	58.2		
		60.4	59.8	278.0	275.2	2	44	82.0	85.2	57.1	56.6		
862	3.7	49.6	50.2	265.3	261.1	2	35	90.0	93.8	53.0	53.2	3.2	254
		51.3	51.8	267.2	263.2	2	45	91.8	95.8	51.2	51.6		
		53.1	53.4	269.0	265.3	2	55	93.7	97.9	49.5	50.0		
850	4.7	47.0	48.0	261.0	256.5	2	48	92.4	96.4	50.7	51.1	3.2	254
		48.8	49.6	263.0	258.7	2	58	94.2	98.5	48.9	49.5		
		50.5	51.2	264.9	260.9	3	8	96.2	100.7	47.2	47.9		
859	4.1	55.6	55.8	269.9	266.5	3	2	84.9	87.9	59.4	59.1	3.7	254
		57.4	57.4	271.6	268.4	3	12	86.6	89.8	57.6	57.5		
		59.1	59.0	273.4	270.4	3	22	88.4	91.8	55.8	55.8		
870	2.6	51.7	51.6	273.2	269.2	3	13	83.2	86.7	55.3	54.9	1.2	295
		53.5	53.2	274.0	271.2	3	23	84.9	88.6	53.6	53.3		
		55.2	54.9	276.5	273.0	3	33	86.5	90.5	51.8	51.7		
1629	4.8	46.1	47.0	262.5	257.8	3	25	88.8	93.0	49.9	50.0	3.9	282
		47.9	48.6	264.4	261.0	3	35	90.5	95.0	48.1	48.4		
		49.6	50.2	266.3	262.1	3	45	92.3	97.1	46.4	46.8		
1	2.2	43.6	44.1	266.8	261.6	3	35	84.5	89.2	47.3	47.0	2.0	287
		45.4	45.7	268.6	263.7	3	45	86.2	91.1	45.6	45.4		
		47.1	47.3	270.4	265.8	3	55	87.8	93.0	43.8	43.8		
27	3.5	39.9	40.5	266.1	260.2	3	51	88.2	93.5	43.6	43.7	4.2	288
		41.7	42.1	268.0	262.4	4	1	90.0	95.5	41.8	42.1		
		43.5	43.7	269.8	264.5	4	11	91.7	97.6	40.1	40.5		
858	5.2	57.5	59.1	264.8	261.6	4	2	87.7	90.5	61.0	61.0	4.7	1228
		59.2	59.7	266.6	263.7	4	12	89.4	92.4	59.3	59.4		
		61.0	61.3	268.4	265.7	4	22	91.2	94.4	57.5	57.7		
1604	4.9	55.2	55.8	264.0	260.6	4	15	90.0	93.0	58.7	58.9	4.7	1228
		56.9	57.4	265.9	262.7	4	25	91.8	95.0	57.0	57.3		
		58.7	59.0	267.7	264.7	4	35	93.6	97.0	55.2	55.7		
1629	4.8	57.2	57.0	273.9	270.7	4	28	81.0	83.8	60.7	60.1	4.6	1244
		59.0	58.6	275.6	272.6	4	38	82.6	85.6	59.0	58.5		
		60.8	60.3	277.2	274.4	4	48	84.2	87.5	57.2	56.9		
45	4.7	43.3	44.1	263.1	257.9	4	38	92.7	97.3	46.9	47.4	5.2	1217
		45.0	45.7	265.1	260.2	4	48	94.6	99.5	45.2	45.8		
		46.8	47.3	266.9	262.3	4	58	96.5	101.7	43.4	44.2		
27	4.3	53.1	53.4	268.5	264.7	4	51	84.7	88.0	56.7	56.4	4.6	1244
		54.9	55.0	270.2	266.7	5	1	86.4	89.9	54.9	54.8		
		56.6	56.6	272.0	268.7	5	11	88.1	91.9	53.2	53.2		

CATNO	MAG	WEST STAR		AZ		LST HRS MIN	AZ		EAST STAR		MAG	CATNO
		Z.D.	LAT 45 LAT 50	LAT 45 LAT 50	LAT 45 LAT 50		Z.D.	LAT 45 LAT 50				
27	4.3	55.6	55.6	270.9	267.5	5 5	82.6	85.6	59.3	56.8	4.1	371
		57.3	57.3	272.7	269.5	5 15	84.2	87.4	57.5	57.2		
		59.1	58.9	274.4	271.4	5 25	85.9	89.3	55.8	55.5		
1047	5.5	43.1	42.7	277.1	271.7	5 25	77.8	82.5	46.6	45.7	4.6	360
		44.9	44.3	278.6	273.5	5 35	79.2	84.3	44.8	44.1		
		46.6	45.9	280.1	275.3	5 45	80.7	86.0	43.1	42.5		
79	4.1	39.7	39.9	271.5	265.5	5 37	84.0	89.3	43.2	42.9	3.3	352
		41.5	41.5	273.2	267.5	5 47	85.6	91.2	41.5	41.3		
		43.3	43.1	274.8	269.5	5 57	87.2	93.2	39.7	39.7		
66	2.7	53.7	54.4	263.5	259.9	5 49	88.3	91.5	57.4	57.4	3.7	384
		55.5	56.0	265.3	262.0	5 59	90.0	93.5	55.6	55.8		
		57.2	57.6	267.2	264.0	6 9	91.8	95.5	53.8	54.2		
74	2.2	51.9	52.4	265.9	262.0	6 1	90.4	93.9	55.3	55.4	3.7	384
		53.6	54.0	267.7	264.1	6 11	92.2	95.9	53.5	53.8		
		55.4	55.6	269.5	266.1	6 21	94.0	97.9	51.7	52.2		
89	5.4	43.4	50.4	260.6	256.5	6 13	92.6	96.3	53.1	53.5	3.7	384
		51.2	52.0	262.6	258.7	6 23	94.4	98.3	51.4	51.9		
		52.9	53.5	264.5	260.8	6 33	96.3	100.5	49.6	50.1		
1382	5.0	40.9	40.7	275.0	269.2	6 29	78.9	83.9	44.6	43.9	4.4	390
		42.6	42.3	276.6	271.1	6 39	80.3	85.7	42.9	42.3		
		44.4	43.9	278.1	272.9	6 49	81.8	87.5	41.2	40.7		
114	4.5	53.4	54.3	261.3	257.7	7 0	93.3	96.6	56.8	57.3	2.6	422
		55.1	55.8	263.3	259.8	7 10	95.2	98.6	55.1	55.7		
		56.9	57.4	265.1	261.9	7 20	97.1	100.7	53.3	54.1		
114	4.5	56.3	57.0	264.6	261.3	7 17	90.5	93.4	60.0	60.2	4.5	1304
		58.1	58.5	266.4	263.4	7 27	92.3	95.4	58.3	58.6		
		59.9	60.1	268.3	265.4	7 37	94.2	97.4	56.5	57.0		
144	2.9	44.0	44.0	272.2	267.0	7 32	80.3	84.9	47.7	47.1	5.5	1300
		45.8	45.6	273.9	269.0	7 42	81.8	86.7	46.0	45.5		
		47.5	47.2	275.5	270.9	7 52	83.4	88.5	44.2	43.9		
136	3.8	53.3	53.6	268.5	264.7	7 49	85.0	88.3	56.9	56.6	4.8	1316
		55.0	55.2	270.2	266.7	7 59	86.7	90.2	55.1	55.0		
		56.8	56.9	272.0	269.7	8 9	88.4	92.1	53.4	53.4		
130	3.0	53.0	53.3	268.2	264.4	7 50	85.2	88.5	56.7	56.4	4.8	1318
		54.8	54.9	269.9	266.4	8 0	86.9	90.4	54.9	54.8		
		56.5	56.5	271.7	268.4	8 10	88.6	92.3	53.2	53.2		
142	3.8	52.9	53.2	268.0	264.2	7 51	85.4	88.7	56.5	56.3	4.8	1318
		54.7	54.8	269.9	266.2	8 1	87.0	90.6	54.8	54.7		
		56.4	56.5	271.5	268.2	8 11	88.8	92.5	53.0	53.1		
1112	4.5	54.2	54.7	266.2	262.6	8 7	89.0	92.1	57.9	56.0	4.8	1323
		56.0	56.3	268.0	264.7	8 17	90.7	94.1	56.2	56.4		
		57.8	57.9	269.8	266.7	8 27	92.5	96.1	54.4	54.8		
181	2.9	43.1	43.1	273.6	268.3	8 34	82.8	87.6	46.6	46.2	5.4	1322
		44.9	44.7	275.3	270.2	8 44	84.4	89.5	44.8	44.6		
		46.7	46.3	276.8	272.1	8 54	86.0	91.4	43.1	43.0		
181	2.9	45.1	44.8	275.4	270.4	8 45	76.8	81.1	48.9	48.0	5.1	1337
		46.8	46.4	277.0	272.3	8 55	78.2	82.9	47.2	46.4		
		48.6	48.0	278.6	274.1	9 5	79.7	84.6	45.5	44.8		
1158	4.5	42.9	43.7	263.5	258.2	9 11	92.5	97.2	46.5	47.0	5.1	1332
		44.6	45.3	265.4	261.4	9 21	94.4	99.3	44.8	45.4		
		46.4	46.9	267.3	262.6	9 31	96.3	101.5	43.0	43.8		
1158	4.5	44.6	45.3	265.4	260.4	9 21	90.3	94.8	48.1	48.4	4.3	492
		46.4	46.9	267.3	262.6	9 31	92.1	96.8	46.4	46.8		
		48.2	48.4	269.1	264.7	9 41	94.0	99.0	44.6	45.2		
202	1.8	52.9	52.6	275.3	271.5	9 44	78.4	81.7	56.7	55.8	3.8	534
		54.7	54.2	276.9	273.4	9 54	80.0	83.5	54.9	54.2		
		56.4	55.8	278.5	275.2	10 4	81.5	85.3	53.2	52.6		
1158	4.5	50.8	50.9	271.8	267.7	9 56	80.3	83.9	54.6	53.9	3.8	534
		52.6	52.5	273.5	269.6	10 6	81.9	85.7	52.8	52.3		
		54.4	54.1	275.1	271.5	10 16	83.4	87.5	51.1	50.7		
254	3.2	46.9	47.7	263.6	259.0	10 16	92.6	96.7	50.5	50.9	4.8	522
		48.7	49.3	265.5	261.2	10 26	94.4	98.8	48.7	49.3		
		50.5	50.9	267.4	263.3	10 36	96.4	100.9	46.9	47.7		
1158	4.5	56.1	55.7	276.8	273.4	10 26	77.5	80.4	59.9	58.9	3.7	572
		57.9	57.3	278.4	275.2	10 36	79.0	82.1	58.1	57.3		
		59.6	58.9	280.0	277.0	10 46	80.6	83.9	56.4	55.7		
1182	5.2	48.0	48.7	263.1	258.7	10 37	89.0	92.9	51.7	51.8	4.9	1383
		49.7	50.3	265.0	260.9	10 47	90.7	94.9	50.0	50.2		
		51.5	51.9	266.9	263.0	10 57	92.6	97.0	48.2	48.6		

CATNO	MAG	WEST STAR				AZ		LST		EAST STAR				MAG	CATNO
		Z. C.		LAT 45 LAT 50		LAT 45 LAT 50		HRS MIN		Z. C.		LAT 45 LAT 50			
1182	5.2	49.7	50.3	265.9	260.9	10	47	86.7	90.4	53.4	53.3	4.7	557		
		51.5	51.9	266.9	263.0	10	57	88.4	92.3	51.7	51.7				
		53.2	53.5	268.7	265.0	11	7	90.1	94.3	49.9	50.1				
270	3.5	49.8	50.7	261.3	257.2	10	57	89.9	93.6	53.4	53.6	5.0	1356		
		51.5	52.3	263.3	259.4	11	7	91.7	95.7	51.7	52.0				
		53.3	53.9	265.2	261.5	11	17	93.6	97.7	49.9	50.4				
286	4.2	44.2	44.2	272.4	267.2	11	8	81.6	86.1	48.0	47.5	3.5	563		
		45.9	45.8	274.0	269.2	11	18	83.1	87.9	46.2	45.8				
		47.7	47.4	275.7	271.1	11	28	84.7	89.8	44.5	44.2				
1207	5.0	44.6	45.3	263.9	259.0	11	18	92.1	96.6	47.9	48.3	4.7	557		
		46.3	46.9	265.8	261.1	11	28	94.0	98.7	46.2	46.7				
		48.1	48.5	267.7	263.3	11	38	95.9	100.9	44.4	45.1				
305	5.0	44.6	45.2	265.8	260.9	11	32	88.1	92.6	48.3	48.4	3.7	572		
		46.4	46.8	267.7	263.0	11	42	89.9	94.6	46.6	46.7				
		48.2	48.4	269.5	265.1	11	52	91.7	96.7	44.8	45.1				
1207	5.0	49.2	49.4	268.8	264.5	11	44	87.4	91.2	52.8	52.7	4.2	553		
		50.9	51.0	270.6	266.5	11	54	89.1	93.2	51.0	51.1				
		52.7	52.7	272.3	268.5	12	4	90.9	95.2	49.3	49.5				
328	4.2	40.7	41.5	263.3	257.6	11	56	92.4	97.5	44.1	44.5	3.7	572		
		42.4	43.1	265.2	259.9	12	6	94.3	99.7	42.3	42.9				
		44.2	44.7	267.1	262.0	12	16	96.2	101.9	40.6	41.3				
295	1.2	53.7	53.4	275.3	271.6	12	6	77.0	80.1	57.5	56.5	3.0	634		
		55.5	55.0	276.9	273.4	12	16	78.5	81.0	55.8	54.9				
		57.2	56.6	278.5	275.3	12	26	80.0	83.7	54.0	53.3				
294	3.7	58.2	58.0	274.0	270.9	12	18	82.1	84.8	61.7	61.2	3.2	641		
		60.1	59.6	275.6	272.7	12	28	83.7	86.7	60.0	59.6				
		61.7	61.2	277.3	274.6	12	38	85.4	88.5	58.2	58.0				
328	4.2	47.2	47.4	270.2	265.6	12	33	81.4	85.5	51.1	50.5	5.4	1441		
		49.0	49.0	271.9	267.6	12	43	83.0	87.3	49.3	48.9				
		50.7	50.6	273.6	269.5	12	53	84.6	89.2	47.6	47.3				
1239	5.2	49.3	50.3	261.0	256.8	12	44	90.6	94.4	53.2	53.4	5.2	1440		
		51.1	51.9	262.9	259.0	12	54	92.4	96.4	51.4	51.8				
		52.8	53.4	264.8	261.1	13	4	94.3	98.5	49.6	50.2				
1239	5.2	51.4	52.2	263.3	259.4	12	56	88.5	92.0	55.0	55.1	3.2	641		
		53.2	53.8	265.2	261.5	13	6	90.2	94.0	53.3	53.5				
		54.9	55.3	267.1	263.6	13	16	92.0	96.0	51.5	51.9				
328	4.2	53.7	53.3	276.4	272.7	13	10	79.6	82.8	57.4	56.6	3.8	674		
		55.5	54.9	278.0	274.6	13	20	81.2	84.6	55.7	55.0				
		57.2	56.5	279.6	276.4	13	30	82.8	86.4	53.9	53.4				
367	3.1	49.6	49.4	263.2	259.9	13	23	89.2	93.1	52.3	52.4	4.5	1460		
		51.4	51.0	265.1	261.1	13	33	91.0	95.1	50.5	50.9				
		52.1	52.6	267.0	263.1	13	43	92.8	97.2	48.7	49.2				
371	4.1	48.1	48.6	266.5	262.1	13	35	87.0	90.9	51.9	51.9	3.5	667		
		49.9	50.2	268.3	264.2	13	45	88.7	92.8	50.2	50.2				
		51.6	51.8	270.1	266.2	13	55	90.4	94.9	48.4	48.6				
1275	4.8	39.8	39.3	267.4	261.3	13	48	88.2	93.7	42.4	42.4	5.4	1456		
		40.5	40.9	269.2	263.4	13	58	90.0	95.8	40.6	40.8				
		42.3	42.5	271.0	265.5	14	8	91.8	97.9	38.8	39.2				
390	4.4	40.4	40.0	277.6	271.7	14	9	79.6	83.8	44.0	43.3	4.0	672		
		42.1	41.6	279.1	273.5	14	10	80.0	85.6	42.3	41.7				
		43.9	43.2	280.5	275.3	14	20	81.5	87.4	40.6	40.1				
371	4.1	55.0	54.9	273.4	269.9	14	14	79.4	82.5	58.6	57.9	5.5	1458		
		56.8	56.5	275.1	271.8	14	24	81.0	84.3	56.9	56.3				
		58.5	58.1	276.7	273.7	14	34	82.6	86.1	55.1	54.7				
371	4.1	57.3	56.9	275.6	272.4	14	27	78.3	81.1	61.0	60.1	3.2	732		
		59.1	58.6	277.2	274.2	14	37	79.9	82.9	59.2	58.5				
		60.8	60.2	278.9	276.0	14	47	81.5	84.7	57.5	56.9				
394	3.7	57.0	57.0	271.3	268.1	14	40	83.7	86.5	60.4	60.0	4.6	1508		
		58.8	58.6	273.1	270.0	14	50	85.4	88.4	58.7	58.4				
		60.5	60.2	274.8	271.9	15	0	87.0	90.3	56.9	56.8				
425	3.7	42.6	42.6	273.3	267.8	14	53	83.2	88.0	46.2	45.8	3.8	705		
		44.4	44.2	274.9	269.8	15	3	84.8	89.9	44.4	44.2				
		46.1	45.8	276.5	271.7	15	13	86.4	91.9	42.7	42.6				
425	3.7	46.0	45.6	276.3	271.5	15	12	78.6	82.8	49.6	48.8	4.9	1510		
		47.7	47.2	277.9	273.3	15	22	80.1	84.6	47.8	47.2				
		49.5	48.8	279.4	275.1	15	32	81.6	86.4	46.1	45.6				
1300	5.5	43.7	43.4	276.2	270.9	15	25	80.5	85.1	47.3	46.7	4.9	1510		
		45.4	45.0	277.7	272.8	15	35	82.0	86.9	45.6	45.1				
		47.2	46.6	279.2	274.6	15	45	83.6	88.8	43.8	43.5				

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 45	LAT 50	HRS	MIN	LAT 45	LAT 50	Z.D.	Z.D.		
1318	4.8	44.2	45.1	261.9	256.9	15	42	90.7	95.2	47.8	48.1	3.2	732
		45.9	46.7	263.9	259.2	15	52	92.5	97.3	46.0	46.5		
		47.7	48.3	265.8	261.3	16	2	94.4	99.5	44.3	44.9		
1304	4.5	57.2	57.7	266.6	263.4	16	1	88.7	91.5	60.7	60.7	4.8	1535
		59.0	59.3	268.4	265.4	16	11	90.4	93.4	58.9	59.1		
		60.8	60.9	270.2	267.4	16	21	92.2	95.4	57.2	57.5		
1323	4.8	49.2	50.0	261.8	257.7	16	11	91.1	94.8	52.9	53.1	5.5	760
		50.9	51.6	263.8	259.8	16	21	92.9	96.9	51.1	51.5		
		52.7	53.2	265.7	261.9	16	31	94.8	99.0	49.3	49.9		
1332	5.1	45.6	46.1	266.5	261.6	16	25	85.5	89.8	49.2	49.0	4.1	1534
		47.3	47.7	268.3	263.8	16	35	87.1	91.7	47.4	47.4		
		49.1	49.3	270.1	265.8	16	45	88.8	93.7	45.6	45.8		
492	4.3	43.6	44.2	264.9	259.8	16	35	87.1	91.7	47.4	47.4	4.1	1534
		45.3	45.8	266.8	261.9	16	45	88.8	93.7	45.6	45.8		
		47.1	47.4	268.6	264.0	16	55	90.6	95.8	43.9	44.2		
1332	5.1	40.5	49.6	270.5	266.2	16	47	82.2	85.9	53.0	52.5	3.4	797
		51.2	51.2	272.2	268.2	16	57	83.8	87.8	51.3	50.9		
		53.0	52.8	273.9	270.1	17	7	85.4	89.7	49.5	49.3		
492	4.3	47.4	47.7	269.0	264.4	16	57	83.8	87.8	51.3	50.9	3.4	797
		49.2	49.3	270.8	266.5	17	7	85.4	89.7	49.5	49.3		
		51.0	50.9	272.5	268.4	17	17	87.1	91.6	47.8	47.7		
492	4.3	50.8	50.8	272.7	268.2	17	16	81.4	84.6	54.5	53.8	5.0	1575
		52.6	52.4	274.0	270.2	17	26	82.6	86.4	52.7	52.2		
		54.3	54.0	275.7	272.1	17	36	84.2	88.2	51.0	50.6		
492	4.3	55.4	55.0	276.7	273.2	17	42	76.8	79.7	59.1	58.1	3.1	857
		57.1	56.6	278.7	275.0	17	52	78.3	81.5	57.4	56.5		
		58.9	58.2	279.9	276.8	18	2	79.8	83.3	55.7	54.9		
534	3.8	43.9	44.1	269.7	264.5	18	5	82.3	86.9	47.7	47.2	4.4	835
		45.6	45.7	271.4	266.5	18	15	83.9	88.7	45.9	45.6		
		47.4	47.3	273.1	268.5	18	25	85.5	90.6	44.2	44.0		
534	3.8	45.8	45.9	271.6	266.7	18	16	81.6	85.9	49.6	49.1	5.5	1590
		47.6	47.5	273.3	268.7	18	26	83.2	87.7	47.9	47.5		
		49.3	49.1	274.9	270.6	18	36	84.7	89.6	46.1	45.9		
1387	4.5	45.8	46.0	270.6	265.7	18	17	81.7	86.0	49.4	48.9	5.5	1590
		47.6	47.6	272.3	267.7	18	27	83.3	87.9	47.7	47.3		
		49.4	49.2	274.0	269.7	18	37	84.9	89.8	45.9	45.7		
1387	4.5	47.6	47.6	272.3	267.7	18	27	83.3	87.9	49.4	48.9	3.1	857
		49.4	49.2	274.0	269.7	18	37	85.4	89.7	47.8	47.7		
		51.1	50.8	275.6	271.6	18	47	87.1	91.6	45.9	45.7		
576	4.2	38.3	39.0	265.7	259.5	18	38	87.6	93.2	41.9	41.9	4.4	835
		40.1	40.6	267.6	261.7	18	48	89.4	95.3	40.1	40.3		
		41.9	42.2	269.4	263.8	18	58	91.1	97.4	38.4	38.7		
572	3.7	43.2	43.7	266.7	261.4	18	53	88.1	92.8	46.7	46.8	3.1	857
		45.0	45.3	268.5	263.6	19	3	89.8	94.8	45.0	45.2		
		46.7	46.9	270.3	265.6	19	13	91.6	96.9	43.2	43.6		
579	2.3	45.7	46.4	265.1	260.3	19	6	89.1	93.4	49.3	48.5	2.6	870
		47.5	47.9	267.0	262.5	19	16	90.9	95.4	47.6	47.9		
		49.3	49.5	268.8	264.5	19	26	92.7	97.5	45.8	46.3		
593	4.2	43.7	44.5	263.2	258.1	19	18	91.2	95.8	47.2	47.5	2.6	870
		45.5	46.1	265.1	260.3	19	28	93.1	97.9	45.5	45.9		
		47.2	47.7	267.0	262.4	19	38	95.0	100.1	43.7	44.4		
578	2.3	51.0	51.1	270.6	266.6	19	36	82.3	85.9	54.8	54.3	2.2	1
		52.8	52.7	272.3	268.5	19	46	83.9	87.7	53.1	52.7		
		54.6	54.4	274.0	270.5	19	56	85.6	89.6	51.3	51.1		
572	3.7	53.3	52.8	276.5	272.8	19	50	78.0	81.2	56.7	55.8	3.5	20
		55.1	54.5	278.1	274.6	20	0	79.5	83.0	55.0	54.2		
		56.8	56.1	279.7	276.4	20	10	81.0	84.8	53.2	52.6		
593	4.2	51.6	51.7	271.5	267.5	20	3	81.6	85.1	55.3	54.7	4.5	19
		53.4	53.3	273.2	269.5	20	13	83.2	86.9	53.5	53.1		
		55.2	54.9	274.9	271.4	20	23	84.8	88.8	51.7	51.5		
578	2.3	57.9	57.4	277.2	274.7	20	15	78.9	81.6	61.5	60.7	4.7	45
		59.6	59.0	279.8	275.8	20	25	80.5	83.4	59.8	59.1		
		61.4	60.6	281.4	277.6	20	35	82.1	85.3	58.0	57.5		
593	4.2	55.9	55.5	275.5	272.1	20	27	80.8	83.8	59.4	58.8	4.7	45
		57.6	57.2	277.2	274.7	20	37	82.4	85.6	57.7	57.2		
		59.4	58.8	278.8	275.8	20	47	84.1	87.5	55.9	55.6		
1446	5.3	42.7	42.6	274.0	268.6	20	38	82.7	87.5	46.3	45.9	4.5	18
		44.4	44.2	275.6	270.5	20	48	84.3	89.4	44.6	44.3		
		46.2	45.8	277.2	272.4	20	58	85.9	91.1	42.8	42.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 45	LAT 50	HRS	MIN	LAT 45	LAT 50	Z.D.	Z.D.		
		LAT 45	LAT 50	LAT 45	LAT 50			LAT 45	LAT 50	LAT 45	LAT 50		
1440	5.2	51.8	52.1	267.9	264.0	20	50	84.6	88.0	55.4	55.1	4.7	45
		53.5	53.7	269.7	266.1	21	0	86.2	89.9	53.6	53.5		
		55.3	55.3	271.5	268.0	21	10	87.9	91.9	51.9	51.9		
641	3.2	49.7	50.2	266.0	261.9	21	2	86.6	90.3	53.3	55.2	4.7	45
		51.4	51.8	267.9	263.9	21	12	88.3	92.3	51.5	51.6		
		53.2	53.4	269.7	266.0	21	22	90.0	94.2	49.8	50.0		
1460	4.5	47.9	48.4	266.3	261.8	21	12	88.3	92.3	51.5	51.6	4.7	45
		49.6	50.0	268.1	263.9	21	22	90.0	94.2	49.8	50.0		
		51.4	51.6	269.9	265.9	21	32	91.8	96.3	48.0	48.4		
674	3.8	43.0	43.5	266.6	261.3	21	22	88.3	93.1	46.7	46.8	4.7	43
		44.7	45.1	268.4	263.4	21	32	90.1	95.1	44.9	45.2		
		46.5	46.7	270.2	265.5	21	42	91.9	97.2	43.2	43.6		
667	3.5	49.2	48.4	269.3	264.9	21	35	84.1	88.1	52.0	51.7	3.6	64
		49.9	50.0	271.1	266.9	21	45	85.8	90.0	50.2	50.1		
		51.7	51.6	272.8	268.8	21	55	87.5	91.9	48.5	48.5		
641	3.2	57.6	57.4	274.0	270.8	21	47	79.2	81.9	61.2	60.4	3.7	100
		59.4	59.0	275.7	272.7	21	57	80.7	83.7	59.5	58.8		
		61.1	60.6	277.3	274.6	22	7	82.4	85.5	57.8	57.2		
1460	4.5	55.8	55.6	274.2	270.8	21	57	80.7	83.7	59.5	58.8	3.7	100
		57.6	57.2	275.9	272.7	22	7	82.4	85.5	57.8	57.2		
		59.3	58.8	277.5	274.5	22	17	84.0	87.4	56.0	55.6		
1460	5.5	53.8	53.8	272.2	269.5	22	10	82.8	86.1	57.2	56.8	3.7	100
		55.6	55.4	273.9	270.4	22	20	84.5	87.9	55.5	55.1		
		57.3	57.0	275.5	272.3	22	30	86.1	89.8	53.7	53.5		
755	3.8	42.0	42.0	273.9	267.4	22	22	83.1	88.0	45.6	45.2	4.1	79
		43.8	43.6	274.6	269.4	22	32	84.7	89.9	43.8	43.6		
		45.6	45.2	276.2	271.3	22	42	86.3	91.8	42.1	42.0		
1489	4.9	48.4	48.8	267.7	263.3	22	32	87.1	91.1	51.9	51.9	4.6	94
		50.1	50.4	269.5	265.3	22	42	88.9	93.0	50.2	50.3		
		51.9	52.0	271.3	267.3	22	52	90.6	95.0	48.4	48.7		
1461	4.4	56.0	56.9	261.8	258.5	22	45	91.9	94.8	59.7	60.0	4.5	114
		57.8	58.4	263.7	260.6	22	55	93.8	96.8	57.9	58.4		
		59.5	60.0	265.6	262.7	23	5	95.6	98.9	56.2	56.8		
1510	4.9	41.3	41.2	274.2	269.5	23	3	81.4	86.4	45.0	44.5	5.0	1082
		43.1	42.8	275.8	270.4	23	13	82.9	88.2	43.2	42.9		
		44.9	44.4	277.4	272.3	23	23	84.4	90.1	41.5	41.3		
1521	4.1	39.2	39.2	273.3	267.2	23	17	83.5	89.0	42.5	42.2	5.0	1082
		40.9	40.8	274.9	269.1	23	27	85.1	90.9	40.6	40.6		
		42.7	42.4	276.5	271.1	23	37	86.7	92.9	39.0	39.0		
1521	4.1	44.1	43.6	277.7	272.5	23	45	78.0	82.6	47.8	46.9	4.1	148
		45.8	45.3	279.2	274.4	23	55	79.5	84.3	46.0	45.3		
		47.6	46.9	280.7	276.1	24	5	80.9	86.1	44.3	43.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 50	LAT 55	HRS	MIN	LAT 50	LAT 55	Z.D.	Z.D.		
1534	4.1	43.3	44.2	263.1	258.0	23	57	89.7	94.4	46.7	46.9	2.9	144
		44.9	45.6	265.2	260.3	0	7	91.7	96.6	45.1	45.5		
		46.5	47.0	267.2	262.6	0	17	93.7	98.8	43.5	44.1		
780	2.6	39.9	40.5	265.8	259.9	0	7	86.4	91.7	43.4	43.3	4.1	148
		41.5	41.9	267.8	262.2	0	17	88.3	93.8	41.8	41.9		
		43.1	43.4	269.8	264.5	0	27	90.2	96.0	40.2	40.5		
780	2.6	42.1	42.5	268.6	263.1	0	21	86.4	91.4	45.4	45.3	5.1	158
		43.7	43.9	270.5	265.3	0	31	88.3	93.5	43.8	43.8		
		45.3	45.4	272.4	267.5	0	41	90.2	95.7	42.1	42.4		
1523	4.7	55.1	55.0	272.9	269.4	0	31	82.1	85.2	58.2	57.7	1.8	202
		56.7	56.4	274.7	271.4	0	41	83.9	87.2	56.6	56.2		
		58.3	57.9	276.5	273.4	0	51	85.7	89.2	55.0	54.8		
797	3.4	44.5	45.2	264.3	259.4	0	47	86.0	90.5	47.9	47.8	2.9	181
		46.1	46.6	266.4	261.6	0	57	87.8	92.6	46.3	46.3		
		47.7	48.0	268.4	263.8	1	7	89.7	94.7	44.7	44.9		
1539	4.8	57.9	58.5	265.1	262.0	0	57	90.9	93.7	61.1	61.3	3.0	211
		59.5	59.9	267.1	264.2	1	7	92.9	95.8	59.5	59.9		
		61.1	61.3	269.1	266.3	1	17	94.9	97.9	57.9	58.5		
797	3.4	47.7	48.0	268.4	263.8	1	7	84.1	88.2	51.1	50.7	4.9	1151
		49.3	49.5	270.3	266.1	1	17	85.9	90.2	49.5	49.3		
		50.9	50.9	272.2	268.1	1	27	87.8	92.3	47.9	47.9		
1575	5.0	44.7	45.4	264.5	259.6	1	25	87.4	91.9	48.2	48.2	4.9	1151
		46.3	46.8	266.5	261.8	1	35	89.3	94.0	46.6	46.7		
		47.9	48.2	268.5	264.0	1	45	91.2	96.1	45.0	45.3		
823	5.1	49.2	50.0	262.3	258.1	1	38	90.3	94.2	52.5	52.7	4.5	1158
		50.8	51.5	264.4	260.4	1	48	92.3	96.3	50.9	51.3		
		52.4	52.9	266.4	262.6	1	58	94.3	98.5	49.3	49.8		
1565	4.8	56.8	57.1	267.8	264.6	1	52	85.6	88.5	60.1	59.8	3.2	254
		58.4	58.5	269.8	266.7	2	2	87.4	90.5	58.5	58.4		
		60.0	60.0	271.7	268.8	2	12	89.3	92.6	56.9	56.9		
835	4.4	48.0	47.9	274.0	269.5	2	18	80.8	84.8	51.3	50.7	3.6	261
		49.6	49.3	275.8	271.5	2	28	82.5	86.8	49.8	49.3		
		51.2	50.7	277.5	273.5	2	38	84.3	88.8	48.2	47.8		
831	4.0	55.5	55.8	269.3	265.8	2	29	82.5	85.5	59.0	58.8	3.9	282
		57.2	57.2	271.2	267.9	2	39	84.3	87.5	57.4	57.0		
		58.9	58.6	273.1	270.0	2	49	86.1	89.5	55.8	55.6		
859	4.1	52.4	53.3	262.2	259.5	2	41	82.1	85.5	55.8	56.2	5.2	1182
		54.0	54.7	264.2	260.7	2	51	84.1	87.7	54.2	54.7		
		55.6	56.1	266.2	262.9	3	1	86.1	89.6	52.6	53.3		
857	3.1	50.0	50.1	271.0	266.8	2	51	82.3	85.0	53.3	52.8	4.2	286
		51.6	51.5	272.9	268.9	3	1	84.0	86.0	51.7	51.3		
		53.2	52.9	274.7	271.0	3	11	85.8	88.0	50.1	49.9		
857	3.1	50.3	50.3	271.4	267.3	2	53	81.6	85.2	53.8	53.2	2.0	287
		51.9	51.8	273.3	269.3	3	3	83.3	87.2	52.2	51.8		
		53.5	53.2	275.1	271.4	3	13	85.1	89.2	50.6	50.3		
859	4.1	55.8	56.2	266.5	263.1	3	2	87.9	90.9	59.1	59.0	3.7	294
		57.4	57.7	268.4	265.2	3	12	89.8	93.0	57.5	57.6		
		59.0	59.1	270.4	267.4	3	22	91.8	95.1	55.8	56.1		
877	2.6	51.6	51.8	269.2	265.3	3	13	86.7	90.2	54.9	54.8	1.2	255
		53.2	53.3	271.2	267.4	3	23	88.6	92.3	53.3	53.3		
		54.8	54.7	273.0	269.5	3	33	90.5	94.4	51.7	51.9		
1	2.2	43.5	44.5	260.7	255.6	3	31	89.5	94.2	46.9	47.0	4.2	286
		45.1	45.9	262.9	258.3	3	41	91.5	96.4	45.3	45.6		
		46.7	47.3	264.9	260.3	3	51	93.5	98.6	43.7	44.2		
1	2.2	43.8	44.8	261.1	256.1	3	33	89.8	93.4	47.4	47.5	2.0	287
		45.4	46.2	263.3	258.5	3	43	91.7	95.5	45.8	46.0		
		47.0	47.6	265.3	260.8	3	53	93.6	97.7	44.2	44.6		
877	2.6	56.3	56.0	274.7	271.3	3	42	80.2	83.2	59.5	58.8	4.2	328
		57.9	57.4	276.5	273.3	3	52	82.0	85.1	58.0	57.4		
		59.5	58.9	278.3	275.3	4	2	83.8	87.1	56.4	56.0		
1629	4.8	51.3	52.0	263.6	259.6	3	52	89.2	91.7	54.8	54.8	5.2	1217
		52.9	53.4	265.6	261.9	4	2	90.1	93.8	53.2	53.3		
		54.5	54.8	267.6	264.0	4	12	92.0	96.0	51.5	51.9		
1004	4.9	55.7	56.6	260.4	257.1	4	14	92.8	95.8	59.0	59.4	4.7	1228
		57.3	58.0	262.5	259.3	4	24	94.8	97.9	57.4	58.0		
		58.9	59.5	264.5	261.5	4	34	96.8	100.1	55.8	56.6		
1629	4.8	56.9	57.0	270.5	267.2	4	27	83.6	86.5	60.2	59.8	4.6	1244
		58.5	58.4	272.4	269.3	4	37	85.4	88.5	58.6	58.4		
		60.1	59.8	274.2	271.3	4	47	87.3	90.5	57.0	56.9		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 50 LAT 55	LAT 50 LAT 55	LAT 50 LAT 55	HRS MIN	LAT 50 LAT 55	LAT 50 LAT 55	Z. D.	LAT 50 LAT 55			
18	4.5	47.9	47.7	274.8	270.2	4 46	80.2	84.3	51.1	50.4	3.3	352	
		49.5	49.1	276.5	272.3	4 56	81.9	86.2	49.5	45.0			
		51.1	50.5	278.3	274.2	5 6	83.7	88.2	47.9	47.5			
27	4.3	55.5	55.9	267.3	263.9	5 4	85.4	88.4	58.9	58.6	4.1	371	
		57.1	57.3	269.3	266.0	5 14	87.2	90.4	57.3	57.2			
		58.7	58.7	271.2	268.1	5 24	89.1	92.5	55.7	55.8			
1047	5.5	42.6	42.7	271.5	266.1	5 24	87.4	87.2	45.9	45.4	4.6	360	
		44.2	44.1	273.3	268.2	5 34	84.1	89.2	44.3	44.0			
		45.8	45.5	275.1	270.3	5 44	85.9	91.3	42.7	42.6			
79	4.1	39.7	40.4	265.3	259.4	5 36	89.1	94.5	43.1	43.2	3.3	352	
		41.3	41.8	267.3	261.7	5 46	91.0	96.7	41.5	41.8			
		42.9	43.2	269.3	263.9	5 56	93.0	98.9	39.9	40.4			
66	2.7	54.3	55.3	259.7	256.2	5 48	91.3	94.5	57.5	57.8	3.7	384	
		55.9	56.7	261.7	258.5	5 58	93.3	96.6	55.9	56.3			
		57.4	58.1	263.8	260.7	6 8	95.3	98.8	54.3	54.9			
74	2.2	52.2	53.1	261.8	258.1	6 0	93.7	97.0	55.6	56.1	3.7	364	
		53.8	54.5	263.9	260.3	6 10	95.7	99.2	54.0	54.6			
		55.4	55.9	265.9	262.5	6 20	97.7	101.5	52.4	53.2			
1070	5.4	42.5	42.4	273.1	267.7	6 17	81.9	86.8	45.8	45.3	4.4	390	
		44.1	43.9	274.9	269.7	6 27	83.6	88.8	44.2	43.9			
		45.7	45.3	276.7	271.8	6 37	85.3	90.8	42.6	42.4			
1082	5.1	40.7	41.0	269.2	263.4	6 29	83.9	89.2	43.9	43.6	4.4	390	
		42.3	42.4	271.1	265.6	6 39	85.7	91.2	42.3	42.2			
		43.9	43.9	272.9	267.7	6 49	87.5	93.3	40.7	40.7			
109	3.7	40.4	40.1	275.9	270.0	6 47	77.3	82.5	43.9	43.0	5.1	1282	
		42.0	41.6	277.6	272.0	6 57	78.9	84.4	42.3	41.6			
		43.6	43.0	279.3	274.0	7 7	80.5	86.3	40.7	40.1			
144	2.9	40.0	41.0	261.8	256.0	7 7	89.0	94.3	43.4	43.6	3.9	412	
		41.6	42.4	263.9	258.4	7 17	91.0	96.5	41.8	42.1			
		43.2	43.3	266.0	260.8	7 27	92.9	98.8	40.2	40.7			
114	4.5	57.0	57.8	261.3	258.2	7 17	93.4	96.2	60.2	60.6	4.5	1304	
		58.5	59.3	263.4	260.4	7 27	95.4	98.4	58.6	59.2			
		60.1	60.7	265.4	262.5	7 37	97.4	100.6	57.0	57.8			
144	2.9	43.9	44.4	266.8	261.7	7 31	84.7	89.3	47.2	47.0	5.5	1300	
		45.5	45.8	268.8	263.9	7 41	86.5	91.4	45.6	45.5			
		47.1	47.2	270.7	266.1	7 51	88.3	93.5	44.0	44.1			
136	3.8	53.4	54.0	264.5	260.9	7 48	89.1	91.4	56.8	56.7	4.8	1318	
		55.0	55.5	266.6	263.1	7 58	90.0	93.5	55.1	55.3			
		56.6	56.9	268.5	265.2	8 8	91.9	95.6	53.5	53.9			
139	3.0	53.2	53.8	264.2	260.5	7 49	88.3	91.6	56.6	56.6	4.8	1318	
		54.8	55.2	266.2	262.7	7 59	90.2	93.7	55.0	55.2			
		56.4	56.7	268.2	264.9	8 9	92.1	95.8	53.4	53.7			
142	3.8	53.1	53.8	264.0	260.4	7 50	88.5	91.8	56.4	56.4	4.8	1318	
		54.7	55.2	266.0	262.6	8 0	90.4	93.9	54.8	55.0			
		56.3	56.6	268.0	264.7	8 10	92.3	96.0	53.2	53.6			
1112	4.5	54.7	55.5	262.6	259.2	8 7	92.1	95.2	58.0	58.3	4.8	1323	
		56.3	56.9	264.7	261.4	8 17	94.1	97.3	56.4	56.9			
		57.9	58.4	266.7	263.6	8 27	96.1	99.5	54.8	55.4			
1133	5.1	39.8	39.8	272.7	266.7	8 23	80.5	85.9	43.2	42.6	5.2	461	
		41.4	41.2	274.5	268.8	8 33	82.2	87.8	41.6	41.2			
		43.0	42.7	276.2	272.9	8 43	83.9	89.8	40.0	39.7			
181	2.9	43.1	43.4	268.3	263.0	8 34	87.6	92.4	46.2	46.2	5.4	1322	
		44.7	44.9	270.2	265.2	8 44	89.5	94.5	44.6	44.8			
		46.3	46.3	272.1	267.3	8 54	91.4	96.7	43.0	43.3			
181	2.9	44.7	44.9	270.2	265.2	9 44	81.0	85.5	48.1	47.5	5.1	1337	
		46.3	46.3	272.1	267.3	9 54	82.7	87.4	46.5	46.1			
		47.9	47.7	273.9	269.4	9 4	84.4	89.5	44.9	44.7			
174	4.3	58.2	58.4	268.5	265.4	9 10	83.9	86.7	61.5	61.0	4.8	522	
		59.8	59.9	270.4	267.5	9 20	85.8	88.7	59.9	59.6			
		61.4	61.3	272.3	269.6	9 30	87.6	90.7	58.3	58.2			
202	1.8	52.6	52.6	271.5	267.7	9 44	81.7	85.1	55.8	55.2	3.8	534	
		54.2	54.1	273.4	269.7	9 54	83.5	87.1	54.2	53.8			
		55.8	55.5	275.2	271.8	10 4	85.3	89.1	52.6	52.4			
202	1.8	52.9	52.9	271.9	268.1	9 46	82.1	85.5	56.4	55.8	4.5	1360	
		54.5	54.4	273.7	270.1	9 56	83.9	87.5	54.8	54.4			
		56.1	55.8	275.5	272.2	10 6	85.7	89.5	53.2	53.0			
1158	4.5	50.7	51.1	267.5	263.4	9 55	83.7	87.3	54.1	53.7	3.8	534	
		52.3	52.5	269.4	265.6	10 5	85.5	89.3	52.5	52.2			
		53.9	53.9	271.3	267.7	10 15	87.3	91.4	50.9	50.8			

CATALOG	MAG	WEST STAR		Z.D.		AZ		LST		AZ		EAST STAR		MAG	CATALOG
		LAT 50	LAT 55	LAT 50	LAT 55	LAT 50	LAT 55	HRS	MIN	LAT 50	LAT 55	LAT 50	LAT 55		
1168	4.5	48.3	48.6	267.9	263.5	10	10	10	10	86.4	90.4	51.7	51.5	3.8	534
		49.9	50.1	269.9	265.7	10	20			88.3	92.4	50.1	50.1		
		51.5	51.5	271.9	267.9	10	30			90.1	94.6	48.4	48.7		
1158	4.5	55.7	55.5	273.4	270.0	10	26			80.4	83.4	58.9	58.2	3.7	572
		57.3	57.0	275.2	272.0	10	36			82.1	85.4	57.3	56.8		
		58.9	58.4	277.0	274.0	10	46			83.9	87.4	55.7	55.4		
1168	4.5	52.9	52.8	273.4	269.6	10	39			79.8	83.2	56.1	55.4	4.2	576
		54.5	54.2	275.3	271.7	10	49			81.5	85.1	54.6	54.0		
		56.1	55.7	277.1	273.7	10	59			83.3	87.1	53.0	52.5		
254	3.2	53.7	54.2	266.9	263.3	10	54			86.2	89.5	57.2	57.0	2.3	578
		55.4	55.6	268.9	265.4	11	4			88.1	91.5	55.6	55.6		
		57.0	57.0	270.8	267.5	11	14			90.0	93.6	54.0	54.1		
254	3.2	55.5	55.7	269.1	265.6	11	5			83.9	86.9	59.0	58.6	4.2	593
		57.1	57.2	271.0	267.7	11	15			85.7	89.0	57.4	57.2		
		58.7	58.6	272.9	265.8	11	25			87.6	91.0	55.8	55.7		
1196	4.2	47.5	48.4	262.2	257.8	11	15			89.3	93.3	51.1	51.2	3.7	572
		49.1	49.8	264.3	260.1	11	25			91.2	95.5	49.5	49.8		
		50.7	51.2	266.3	262.3	11	35			93.2	97.6	47.9	48.3		
294	3.7	51.0	51.8	262.1	258.2	11	34			89.3	92.9	54.3	54.4	4.2	593
		52.6	53.2	264.2	260.4	11	44			91.2	95.0	52.7	53.0		
		54.2	54.6	266.2	262.6	11	54			93.2	97.2	51.1	51.6		
1207	5.0	49.4	50.1	264.5	260.3	11	44			91.2	95.0	52.7	53.0	4.2	593
		51.0	51.5	266.5	262.5	11	54			93.2	97.2	51.1	51.6		
		52.7	53.0	269.5	264.7	12	4			95.2	99.4	49.5	50.2		
287	2.0	52.1	51.7	276.6	272.7	12	3			77.9	80.5	55.4	54.5	5.3	1486
		53.7	53.1	278.3	274.6	12	13			78.7	82.4	53.9	53.0		
		55.3	54.5	280.1	276.6	12	23			80.4	84.3	52.3	51.6		
294	3.7	58.0	58.1	270.9	267.7	12	18			84.8	87.6	61.2	60.8	3.2	641
		59.6	59.5	272.7	269.8	12	28			86.7	89.6	59.6	59.4		
		61.2	60.9	274.6	271.8	12	38			88.5	91.7	58.0	58.0		
328	4.2	47.2	47.8	265.4	260.8	12	32			85.3	89.4	50.7	50.5	5.4	1441
		48.8	49.2	267.4	263.1	12	42			87.1	91.5	49.1	49.0		
		50.4	50.7	269.3	265.2	12	52			89.0	93.6	47.5	47.6		
1237	4.7	39.7	39.5	274.7	268.6	12	43			81.2	86.6	42.9	42.3	3.6	626
		41.3	41.0	276.4	270.7	12	53			82.8	88.6	41.3	40.9		
		42.9	42.4	278.1	272.7	13	3			84.5	90.6	39.7	39.5		
1239	5.2	51.9	53.0	259.0	255.2	12	54			91.6	95.9	55.4	55.7	3.2	641
		53.4	54.4	261.1	257.5	13	4			93.6	97.2	53.8	54.2		
		55.0	55.8	263.2	259.8	13	14			95.6	99.4	52.2	52.8		
328	4.2	53.3	53.2	272.7	269.0	13	10			82.8	86.1	56.6	56.2	3.8	674
		54.9	54.7	274.6	271.1	13	20			84.6	88.1	55.0	54.7		
		56.5	56.1	276.4	273.1	13	30			86.4	90.1	53.4	53.3		
352	3.3	46.0	45.9	274.2	269.4	13	22			77.5	81.8	49.3	48.4	4.0	672
		47.6	47.3	276.0	271.4	13	32			79.1	83.6	47.7	47.0		
		49.2	48.7	277.8	273.4	13	42			80.7	85.6	46.1	45.5		
360	4.6	44.4	44.1	276.1	271.0	13	33			79.3	83.8	47.6	46.8	4.0	672
		46.0	45.6	277.8	273.0	13	43			80.9	85.8	46.0	45.4		
		47.6	47.0	279.5	274.9	13	53			82.6	87.7	44.4	44.0		
371	4.1	49.9	50.6	263.7	259.6	13	43			87.5	91.2	53.3	53.2	3.8	681
		51.5	52.0	265.8	261.9	13	53			89.3	93.3	51.6	51.8		
		53.1	53.5	267.8	264.0	14	3			91.3	95.4	50.0	50.3		
1244	4.6	55.9	55.9	271.4	268.0	13	53			84.1	87.1	59.3	58.9	4.9	1488
		57.5	57.4	273.3	270.1	14	3			85.9	89.1	57.7	57.5		
		59.1	58.8	275.1	272.1	14	13			87.8	91.1	56.1	56.0		
412	3.9	38.5	39.2	264.9	258.8	14	7			85.0	90.6	42.2	42.0	4.0	672
		40.1	40.7	267.0	261.1	14	17			86.8	92.7	40.6	40.5		
		41.7	42.1	269.0	263.4	14	27			88.6	94.8	38.9	39.1		
390	4.4	42.7	42.5	274.8	269.3	14	17			78.1	82.9	46.1	45.3	0.1	655
		44.3	43.9	276.5	271.4	14	27			79.7	84.8	44.6	43.9		
		45.9	45.4	278.2	273.3	14	37			81.4	86.8	43.0	42.5		
425	3.7	39.2	40.0	263.5	257.5	14	32			86.7	92.1	42.7	42.6	4.3	1477
		40.8	41.4	265.6	259.9	14	42			88.5	94.3	41.0	41.2		
		42.4	42.9	267.6	262.2	14	52			90.4	96.5	39.4	39.7		
412	3.9	44.8	44.8	272.6	267.5	14	46			80.8	85.4	48.0	47.4	5.1	719
		46.4	46.2	274.4	269.6	14	56			82.5	87.3	46.4	45.9		
		48.0	47.7	276.2	271.6	15	6			84.3	89.3	44.8	44.5		
425	3.7	43.1	43.4	268.4	263.1	14	56			82.5	87.3	46.4	45.9	5.1	719
		44.7	44.9	270.4	265.3	15	6			84.3	89.3	44.8	44.5		
		46.3	46.3	272.2	267.4	15	16			86.1	91.4	43.2	43.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	Z.D.	Z.D.	HRS	MIN	Z.D.	Z.D.	Z.D.	Z.D.		
		LAT 50	LAT 55	LAT 50	LAT 55			LAT 50	LAT 55	LAT 50	LAT 55		
412	3.9	49.0	48.5	277.2	272.8	15	12	78.1	81.9	52.3	51.4	4.0	1521
		50.5	49.9	278.9	274.8	15	22	79.7	83.8	50.7	50.0		
		52.1	51.4	280.6	276.7	15	32	81.4	85.8	49.1	48.5		
425	3.7	47.2	47.1	273.3	268.7	15	22	79.7	83.8	50.7	50.0	4.0	1521
		48.8	48.6	275.1	270.8	15	32	81.4	85.8	49.1	48.5		
		50.4	50.0	276.9	272.8	15	42	83.1	87.7	47.5	47.1		
1300	5.5	45.1	45.1	273.0	269.0	15	36	82.1	86.6	48.5	48.0	4.0	1521
		46.8	46.5	274.8	270.0	15	46	83.8	88.6	46.9	46.5		
		48.3	48.0	276.5	272.1	15	56	85.6	90.6	45.3	45.1		
1322	5.4	39.4	40.2	264.1	258.1	15	48	89.6	94.9	42.8	43.0	4.9	1510
		41.0	41.6	266.1	260.5	15	59	91.5	97.1	41.2	41.6		
		42.6	43.0	268.1	262.8	16	9	93.5	99.4	39.6	40.2		
1374	4.5	57.5	58.2	263.2	260.1	16	0	91.3	94.1	60.9	61.1	4.8	1539
		59.1	59.6	265.2	262.3	16	10	93.2	96.2	59.2	59.7		
		60.7	61.1	267.2	264.4	16	20	95.2	98.3	57.6	58.2		
461	5.2	40.7	40.3	276.9	271.0	16	11	77.9	83.1	43.9	43.1	2.3	765
		42.3	41.8	278.5	273.0	16	21	79.4	85.0	42.4	41.7		
		43.9	43.2	280.2	275.0	16	31	81.1	86.9	40.8	40.2		
1332	5.1	45.8	46.7	261.2	256.5	16	23	89.4	93.7	49.3	48.4	4.1	1534
		47.4	48.1	263.3	258.8	16	33	91.3	95.9	47.7	48.0		
		49.0	49.5	265.4	261.1	16	43	93.3	98.1	46.1	46.6		
1332	5.1	49.6	49.3	265.0	260.7	16	41	90.3	94.2	52.0	52.2	5.2	786
		50.2	50.7	267.0	262.9	16	51	92.2	96.3	50.4	50.8		
		51.8	52.1	269.0	265.0	17	1	94.2	98.5	48.8	49.4		
492	4.3	46.9	47.7	263.4	258.8	16	52	92.4	96.5	50.2	50.6	5.2	786
		48.5	49.1	265.5	261.1	17	2	94.4	98.7	48.6	49.2		
		50.1	50.5	267.5	263.3	17	12	96.5	101.0	47.0	47.8		
1332	5.1	52.3	52.5	269.5	265.7	17	4	82.4	85.8	55.7	55.2	5.0	1575
		53.9	54.0	271.4	267.8	17	14	84.2	87.8	54.2	53.8		
		55.5	55.4	273.3	269.9	17	24	86.0	89.9	52.6	52.4		
492	4.3	50.6	51.0	268.1	264.0	17	15	84.4	88.0	54.0	53.7	5.0	1575
		52.2	52.4	270.7	266.1	17	25	86.2	90.1	52.4	52.2		
		53.8	53.8	271.9	268.2	17	35	88.1	92.1	50.8	50.8		
1332	5.1	56.5	56.3	274.4	271.1	17	30	77.7	80.6	60.0	59.1	3.1	857
		58.1	57.7	276.2	273.1	17	40	79.4	82.5	58.4	57.6		
		59.7	59.1	278.0	275.1	17	50	81.1	84.4	56.9	56.2		
492	4.3	54.8	54.7	273.0	269.5	17	41	79.6	82.7	58.3	57.5	3.1	857
		56.4	56.1	274.8	271.5	17	51	81.3	84.6	56.7	56.1		
		58.0	57.6	276.7	273.5	18	1	83.1	86.6	55.1	54.7		
522	4.8	50.1	50.9	262.3	258.2	17	58	93.6	97.3	53.2	53.6	4.0	831
		51.7	52.3	264.4	260.5	18	8	95.7	99.6	51.6	52.2		
		53.3	53.8	266.4	262.7	18	18	97.7	101.8	50.0	50.8		
535	3.0	39.9	39.8	274.7	269.7	18	10	79.7	85.1	43.1	42.4	4.6	1563
		41.5	41.2	276.4	270.7	18	20	81.4	87.1	41.5	41.0		
		43.1	42.6	278.1	272.7	18	30	83.0	89.0	39.9	39.6		
1380	4.5	47.6	48.0	267.7	263.2	18	27	87.8	91.9	50.9	50.9	3.1	857
		49.2	49.4	269.7	265.4	18	37	89.7	94.0	49.3	48.5		
		50.8	50.9	271.6	267.5	18	47	91.6	96.1	47.7	48.1		
1383	4.9	50.3	50.9	265.3	261.2	18	39	88.2	91.8	53.8	53.8	2.6	870
		51.9	52.4	267.3	263.4	18	49	90.1	93.9	52.2	52.4		
		53.6	53.8	269.2	265.5	18	59	92.0	96.1	50.6	50.9		
557	4.7	48.6	49.3	263.8	259.5	18	51	90.4	94.4	51.9	52.1	2.6	870
		50.2	50.8	265.8	261.7	19	1	92.4	96.5	50.3	50.5		
		51.8	52.2	267.8	263.9	19	11	94.4	98.7	48.7	49.2		
1383	4.9	55.2	55.2	271.1	267.6	19	9	81.0	84.1	58.6	58.0	2.2	1
		56.8	56.6	273.0	269.7	19	19	82.8	86.0	57.0	56.6		
		58.4	58.1	274.8	271.8	19	29	84.6	88.0	55.4	55.1		
557	4.7	53.4	53.6	269.8	266.1	19	21	83.1	86.4	56.7	56.3	2.2	1
		55.0	55.0	271.7	268.2	19	31	84.9	88.4	55.1	54.8		
		56.6	56.5	273.5	270.2	19	41	86.8	90.5	53.5	53.4		
578	2.3	51.0	51.5	266.4	262.4	19	35	85.7	89.3	54.5	54.3	2.2	1
		52.6	52.9	268.3	264.5	19	45	87.5	91.3	52.9	52.9		
		54.2	54.3	270.3	266.7	19	55	89.4	93.4	51.3	51.4		
572	3.7	52.7	52.6	272.6	268.8	19	49	81.1	84.5	56.0	55.3	3.5	20
		54.3	54.1	274.4	270.8	19	59	82.8	86.4	54.4	53.9		
		55.9	55.5	276.2	272.8	20	9	84.6	88.4	52.8	52.5		
593	4.2	51.5	51.9	267.3	263.4	20	2	84.9	88.4	54.8	54.5	4.5	19
		53.1	53.4	269.3	265.5	20	12	86.7	90.5	53.2	53.1		
		54.7	54.8	271.2	267.6	20	22	88.6	92.6	51.6	51.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 50	LAT 55	HRS	MIN	LAT 50	LAT 55	LAT 50	LAT 55		
578	2.3	57.4	57.2	274.0	270.8	20	15	81.6	84.5	60.7	60.1	4.7	45
		59.0	58.6	275.8	272.8	20	25	83.4	86.5	59.1	58.7		
		60.6	60.1	277.6	274.8	20	35	85.3	88.5	57.5	57.2		
593	4.2	55.5	55.5	272.1	268.7	20	27	83.8	86.8	58.8	58.4	4.7	45
		57.2	56.9	274.0	270.7	20	37	85.6	88.9	57.2	56.9		
		58.8	58.4	275.8	272.8	20	47	87.5	90.9	55.6	55.5		
593	4.2	57.3	57.1	274.2	270.9	20	38	77.9	80.7	60.7	59.8	3.6	64
		58.9	58.5	276.0	273.0	20	48	79.6	82.6	59.2	58.4		
		60.5	60.0	277.8	274.9	20	58	81.4	84.6	57.6	57.0		
1440	5.2	52.0	52.7	263.9	260.0	20	49	87.8	91.3	55.2	55.2	4.7	45
		53.6	54.1	265.9	262.2	20	59	89.7	93.4	53.6	53.8		
		55.2	55.5	267.8	264.4	21	9	91.7	95.5	52.0	52.4		
641	3.2	50.0	50.9	261.6	257.6	21	1	90.1	93.8	53.3	53.5	4.7	45
		51.6	52.3	263.7	259.9	21	11	92.1	96.0	51.7	52.1		
		53.2	53.8	265.8	262.1	21	21	94.0	98.2	50.1	50.6		
1460	4.5	48.4	49.3	261.8	257.5	21	12	92.3	96.2	51.6	51.9	4.7	45
		50.0	50.7	263.9	259.8	21	22	94.2	98.4	50.0	50.5		
		51.6	52.1	265.9	262.0	21	32	96.3	100.6	48.4	49.1		
1446	5.3	49.6	49.2	276.7	272.4	21	22	77.7	81.5	52.8	51.9	3.1	75
		51.2	50.7	278.4	274.4	21	32	79.4	83.4	51.2	50.5		
		52.8	52.1	280.2	276.3	21	42	81.1	85.4	49.6	49.0		
667	3.5	48.4	49.1	264.9	260.5	21	35	88.1	92.0	51.7	51.7	3.6	64
		50.7	50.5	266.9	262.7	21	45	90.0	94.1	50.1	50.2		
		51.6	51.9	268.8	264.5	21	55	91.9	96.3	48.5	48.8		
641	3.2	57.2	57.3	270.6	267.4	21	46	81.7	84.6	60.6	60.0	3.7	100
		59.9	58.8	272.5	269.5	21	56	83.5	86.5	59.0	58.6		
		60.5	60.2	274.4	271.5	22	6	85.3	88.6	57.4	57.1		
1460	4.5	55.6	55.7	270.8	267.4	21	57	83.7	86.7	58.8	58.4	3.7	100
		57.2	57.1	272.7	269.5	22	7	85.5	88.8	57.2	57.0		
		58.3	58.5	274.5	271.5	22	17	87.4	90.8	55.6	55.5		
1460	5.5	53.6	53.9	268.3	264.7	22	9	85.9	89.2	56.9	56.7	3.7	100
		55.2	55.4	270.2	266.8	22	19	87.7	91.2	55.3	55.3		
		56.8	56.8	272.1	268.9	22	29	89.6	93.3	53.7	53.8		
1488	4.9	46.7	47.7	260.5	256.0	22	19	89.7	93.8	50.2	50.3	5.4	1068
		48.3	49.1	262.7	258.3	22	29	91.6	96.0	48.6	48.9		
		49.9	50.5	264.7	260.6	22	39	93.6	98.2	46.9	47.5		
1483	4.9	48.6	49.4	263.1	258.8	22	31	90.9	94.8	52.0	52.3	4.6	94
		50.2	50.8	265.1	261.0	22	41	92.8	96.9	50.4	50.8		
		51.8	52.2	267.1	263.2	22	51	94.8	99.1	48.8	49.4		
713	3.3	44.4	44.7	269.0	264.0	22	43	82.9	87.4	47.7	47.2	5.0	1082
		46.0	46.1	270.9	266.1	22	53	84.6	89.4	46.1	46.8		
		47.6	47.6	272.8	268.2	23	3	86.4	91.5	44.5	44.4		
724	4.5	40.3	40.2	274.6	268.7	22	56	77.0	82.2	43.6	42.7	2.8	111
		41.9	41.6	276.3	270.7	23	6	78.5	84.1	42.0	41.3		
		43.5	43.1	278.0	272.7	23	16	80.1	86.0	40.5	39.8		
705	3.3	49.4	49.1	276.0	271.7	23	8	76.4	80.2	52.8	51.8	4.1	148
		51.0	50.5	277.8	273.7	23	18	78.0	82.0	51.2	50.3		
		52.6	51.9	279.5	275.6	23	28	79.7	83.9	49.6	48.9		
1510	4.0	45.7	45.6	273.8	269.9	23	31	80.2	84.5	49.2	48.5	4.1	148
		47.3	47.0	275.6	270.9	23	41	81.9	86.5	47.6	47.1		
		49.1	48.5	277.3	272.9	23	51	83.6	88.4	46.0	45.6		
1521	4.0	43.6	43.7	272.5	267.3	23	45	82.6	87.2	46.9	46.5	4.1	148
		45.3	45.1	274.4	269.4	23	55	84.3	89.3	45.3	45.0		
		46.0	46.5	276.1	271.4	24	5	86.1	91.3	43.7	43.6		

CATNO	MAG	WEST STAR		AZ		LST	AZ		EAST STAR		MAG	CATNO	
		Z.D.					Z.D.						
		LAT 55	LAT 60	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	LAT 55	LAT 60		
1521	4.0	46.5	46.6	271.4	266.7	0	5	79.7	84.0	49.7	49.0	5.1	1133
		48.0	47.9	273.4	268.9	0	15	81.6	86.1	48.3	47.7		
		49.4	49.1	275.4	271.1	0	25	83.5	88.2	46.8	46.5		
732	3.2	56.9	56.8	272.5	269.2	0	15	82.1	85.0	59.9	59.4	1.8	202
		58.3	58.1	274.5	271.4	0	25	84.0	87.1	58.5	58.1		
		59.7	59.3	276.4	273.5	0	35	86.0	89.3	57.1	56.9		
1523	4.7	58.9	55.1	269.2	265.7	0	30	85.0	88.2	57.8	57.5	1.8	202
		56.3	56.3	271.2	267.9	0	40	87.0	90.3	56.4	56.3		
		57.7	57.6	273.2	270.1	0	50	89.0	92.5	54.9	55.0		
1534	4.1	51.0	51.3	268.6	264.5	0	45	83.8	87.5	53.9	53.5	4.9	1151
		52.4	52.5	270.6	266.8	0	55	85.8	89.6	52.5	52.3		
		53.8	53.8	272.6	269.0	1	5	87.8	91.8	51.0	51.0		
1558	4.3	39.0	39.3	269.4	263.3	0	54	82.8	88.3	42.1	41.7	3.9	1137
		40.4	40.5	271.5	265.6	1	4	84.6	90.5	40.6	40.4		
		41.8	41.8	273.5	267.9	1	14	86.5	92.7	39.2	39.2		
1559	4.3	39.2	39.5	269.9	263.8	0	56	82.2	87.7	42.2	41.8	3.3	185
		40.7	40.8	271.9	266.1	1	6	84.1	89.9	40.8	40.5		
		42.1	42.0	273.8	268.3	1	16	86.0	92.1	39.4	39.3		
757	3.4	47.7	48.6	263.6	259.2	1	6	88.0	92.0	50.9	50.9	4.9	1151
		49.3	49.9	265.8	261.6	1	16	90.0	94.3	49.4	49.6		
		50.7	51.1	267.9	263.9	1	26	92.1	96.5	48.6	48.4		
786	5.2	54.7	54.3	268.5	264.9	1	19	84.3	87.6	57.1	56.8	4.5	1168
		55.4	55.5	270.5	267.1	1	29	86.3	89.7	55.7	55.5		
		56.9	56.8	272.6	269.3	1	39	88.3	91.9	54.3	54.3		
1565	4.8	56.9	57.6	264.4	261.2	1	51	88.3	91.2	60.0	59.9	3.2	254
		58.4	58.8	266.5	263.4	2	1	90.3	93.4	58.5	58.7		
		59.8	60.1	268.6	265.7	2	11	92.4	95.6	57.1	57.4		
797	3.4	56.3	56.0	275.8	272.4	2	5	77.2	80.2	59.3	58.3	4.2	286
		57.7	57.2	277.7	274.5	2	15	79.1	82.2	57.9	57.1		
		59.2	58.5	279.6	276.6	2	25	81.0	84.3	56.5	55.8		
797	3.4	56.6	56.2	276.2	272.8	2	7	76.5	79.4	59.7	58.7	2.0	287
		58.0	57.5	278.1	275.0	2	17	78.4	81.5	58.3	57.4		
		59.4	58.7	280.0	277.0	2	27	80.2	83.5	56.9	56.2		
935	4.4	47.9	48.1	269.5	265.0	2	18	84.8	88.9	50.7	50.4	3.6	261
		49.3	49.3	271.5	267.2	2	28	86.8	91.1	49.3	49.2		
		50.7	50.6	273.5	269.4	2	38	88.8	93.3	47.8	47.9		
831	4.1	55.6	56.1	265.6	262.3	2	28	85.3	88.4	58.6	58.3	3.9	282
		57.1	57.4	267.7	264.5	2	38	87.3	90.5	57.1	57.1		
		58.5	58.6	269.8	266.7	2	48	89.3	92.7	55.7	55.8		
831	4.1	57.9	58.1	269.0	265.9	2	44	83.8	86.5	61.0	60.6	5.0	1207
		59.3	59.4	271.0	268.1	2	54	85.7	88.7	59.6	59.4		
		60.8	60.6	273.0	270.2	3	4	87.7	90.8	58.2	58.1		
859	4.1	56.1	56.8	262.0	259.6	3	1	90.7	93.7	59.2	59.3	3.7	294
		57.5	58.1	265.0	261.9	3	11	92.8	95.9	57.7	58.1		
		58.9	59.3	267.1	264.2	3	21	94.9	98.2	56.3	56.9		
871	2.6	51.3	52.4	265.3	261.4	3	13	90.2	93.8	54.8	54.9	1.2	295
		53.3	53.7	267.4	263.7	3	23	92.3	96.0	53.3	53.7		
		54.7	54.9	269.5	266.0	3	33	94.4	98.3	51.9	52.5		
871	2.6	56.7	56.0	271.3	268.0	3	42	83.2	86.2	58.8	58.4	4.2	328
		57.4	57.3	273.3	270.1	3	52	85.1	88.4	57.4	57.1		
		58.9	58.5	275.3	272.3	4	2	87.1	90.5	56.0	55.9		
1613	5.5	53.1	52.8	275.2	271.4	4	5	76.6	79.9	56.2	55.2	3.3	352
		54.5	54.0	277.1	273.6	4	15	78.4	82.0	54.8	53.9		
		55.9	55.3	279.1	275.7	4	25	80.3	84.0	53.4	52.7		
1625	4.5	45.3	45.2	272.9	267.9	4	26	79.5	84.0	48.3	47.6	4.7	1237
		46.7	46.5	274.9	270.1	4	36	81.3	86.0	46.9	46.3		
		48.1	47.7	276.8	272.3	4	46	83.2	88.1	45.5	45.1		
1621	4.4	40.1	40.0	274.6	268.6	4	42	80.0	85.4	43.0	42.3	4.1	339
		41.6	41.2	276.5	270.8	4	52	81.8	87.8	41.6	41.1		
		43.0	42.5	278.3	272.9	5	2	83.6	89.6	40.1	39.8		
27	4.3	55.7	56.4	263.7	260.4	5	3	88.2	91.2	58.8	58.8	4.1	371
		57.2	57.7	265.8	262.6	5	13	90.2	93.4	57.4	57.5		
		58.6	58.9	267.9	264.9	5	23	92.3	95.7	55.9	56.3		
19	4.5	55.4	55.3	272.8	269.3	5	19	77.8	80.9	58.5	57.6	4.8	1275
		56.8	56.6	274.8	271.5	5	29	79.7	82.9	57.1	56.3		
		58.3	57.8	276.7	273.6	5	39	81.6	85.0	55.7	55.1		
42	2.4	48.5	48.2	275.0	270.6	5	34	78.6	82.6	51.4	50.6	4.4	390
		49.9	49.5	277.0	272.7	5	44	80.5	84.7	50.0	49.4		
		51.3	50.7	278.8	274.8	5	54	82.3	86.8	48.6	48.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT 55	Z.D. LAT 60	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	LAT 55	Z.D. LAT 60		
43	4.7	53.8	53.8	272.0	268.3	5	45	82.4	85.7	56.8	56.3	5.4	407
		55.2	55.3	274.0	270.5	5	55	84.3	87.8	55.4	55.0		
		56.7	56.3	275.9	272.6	6	5	86.3	89.9	54.0	53.8		
73	2.3	39.5	39.2	276.3	270.2	5	57	78.4	83.9	42.4	41.7	3.5	383
		40.9	40.4	278.1	272.3	6	7	80.2	85.9	41.0	40.4		
		42.3	41.7	279.9	274.4	6	17	81.9	89.0	39.6	39.2		
1170	5.4	42.4	42.9	267.7	263.2	6	17	86.8	91.7	45.3	45.2	4.4	390
		43.9	44.1	269.7	264.6	6	27	88.8	93.9	43.9	44.0		
		45.3	45.4	271.8	266.8	6	37	90.8	96.2	42.4	42.7		
1182	5.7	40.7	41.6	263.0	257.3	6	27	88.8	93.9	43.9	44.0	4.4	390
		42.1	42.8	265.2	259.7	6	37	90.8	96.2	42.4	42.7		
		43.6	44.0	267.3	262.1	6	47	92.9	98.6	41.0	41.5		
1199	3.7	40.7	41.3	269.8	263.9	6	46	82.4	87.7	43.1	42.7	5.1	1282
		41.4	41.5	271.8	266.2	6	56	84.2	89.8	41.7	41.5		
		42.9	42.8	273.8	268.4	7	6	86.1	92.0	40.3	40.2		
148	4.1	39.4	41.3	262.3	256.4	7	21	87.7	93.2	42.5	42.5	4.8	1293
		40.9	41.6	264.6	259.9	7	31	89.7	95.5	41.0	41.3		
		42.3	42.8	266.7	261.3	7	41	91.8	97.8	39.6	40.0		
94	4.6	59.4	58.1	274.0	271.9	7	36	81.9	84.6	61.3	60.7	5.1	1332
		59.8	59.4	275.9	273.0	7	46	83.8	86.8	59.9	59.5		
		61.2	60.6	277.9	275.1	7	56	85.8	88.9	58.5	58.2		
136	3.9	53.9	54.9	269.7	257.2	7	47	91.2	94.4	56.9	57.1	4.8	1318
		55.3	56.1	262.9	259.5	7	57	93.3	96.7	55.4	55.9		
		56.7	57.3	265.0	261.8	8	7	95.4	99.0	54.0	54.6		
137	3.3	53.7	54.7	260.3	256.8	7	48	91.4	94.7	56.7	57.0	4.8	1318
		55.1	55.9	262.5	259.1	7	58	93.5	96.9	55.3	55.8		
		56.5	57.1	264.7	261.4	8	8	95.6	99.2	53.9	54.5		
142	3.3	53.6	54.6	260.1	256.6	7	49	91.6	94.9	56.6	56.9	4.8	1318
		55.0	55.9	262.3	259.9	7	59	93.7	97.1	55.2	55.6		
		56.5	57.1	264.5	261.2	8	9	95.8	99.4	53.7	54.4		
144	2.9	43.2	48.6	267.5	263.1	7	58	85.1	89.1	51.3	51.1	5.4	1322
		49.7	49.9	269.6	265.4	8	8	87.1	91.2	49.9	49.8		
		51.1	51.1	271.7	267.6	8	18	89.1	93.5	48.5	48.6		
148	4.1	46.3	46.3	272.5	267.7	8	9	78.4	82.7	49.3	48.5	2.9	485
		47.7	47.5	274.5	269.9	8	19	80.2	84.7	47.9	47.3		
		49.2	49.3	276.4	272.7	8	29	82.1	86.8	46.5	46.0		
149	4.1	49.0	47.8	274.8	271.3	8	21	81.1	85.2	50.8	50.2	5.1	1337
		49.4	49.0	276.8	272.5	8	31	83.2	87.3	49.4	49.0		
		51.0	50.3	278.7	274.6	8	41	84.9	89.4	48.0	47.7		
1133	5.1	42.1	42.3	275.0	264.5	8	39	83.9	88.9	45.1	44.8	2.9	485
		43.5	43.6	272.1	266.8	8	49	85.8	91.1	43.7	43.5		
		45.0	44.8	274.0	269.0	8	59	87.8	93.3	42.2	42.3		
192	4.8	47.3	41.0	270.2	264.5	8	58	81.1	86.3	43.9	43.4	4.7	484
		48.2	42.2	272.2	266.7	9	8	82.9	88.4	42.5	42.1		
		49.6	42.5	274.2	268.9	9	18	84.8	90.5	41.1	40.9		
174	4.3	53.2	58.7	265.0	261.9	9	8	86.3	89.0	61.3	61.1	4.8	522
		53.6	60.0	267.1	264.2	9	18	88.3	91.2	59.9	59.9		
		61.0	61.2	269.1	266.4	9	28	90.3	93.4	58.5	58.6		
181	2.9	49.0	49.8	272.4	268.2	9	19	78.7	82.5	53.0	52.2	4.8	1376
		51.3	51.1	274.4	270.4	9	29	80.6	84.5	51.6	51.0		
		52.7	52.3	276.4	272.5	9	39	82.4	86.6	50.2	49.7		
222	1.8	52.5	52.9	267.5	263.7	9	43	84.9	88.4	55.4	55.1	3.8	534
		53.2	54.1	269.5	265.9	9	53	86.9	90.6	54.0	53.8		
		55.4	55.4	271.6	268.1	10	3	88.9	92.8	52.5	52.6		
1153	4.0	59.8	51.6	263.0	259.0	9	53	86.9	90.6	54.0	53.8	3.8	534
		52.2	52.8	265.2	261.3	10	3	88.9	92.8	52.5	52.6		
		53.7	54.1	267.3	263.6	10	13	91.0	95.0	51.1	51.3		
272	1.9	56.4	56.2	273.0	269.6	10	10	77.7	80.6	59.5	58.6	4.2	576
		57.8	57.5	275.0	271.3	10	20	79.5	82.7	58.1	57.3		
		59.2	58.7	276.9	273.3	10	30	81.4	84.7	56.7	56.1		
1153	4.5	55.4	55.6	269.8	266.3	10	25	83.2	86.3	58.4	57.9	3.7	572
		56.8	56.8	271.8	268.5	10	35	85.2	88.4	56.9	56.6		
		58.2	58.1	273.8	270.7	10	45	87.2	90.6	55.5	55.4		
1168	4.5	52.6	52.9	269.4	265.6	10	38	83.0	86.4	55.5	55.1	4.2	576
		54.1	54.1	271.5	267.9	10	48	84.9	88.5	54.1	53.8		
		55.5	55.4	273.5	270.0	10	58	86.9	90.7	52.7	52.6		
254	3.2	54.0	54.8	263.1	259.5	10	53	89.3	92.5	57.1	57.2	2.3	578
		55.5	56.0	265.2	261.8	11	3	91.3	94.7	55.7	56.0		
		56.9	57.3	267.3	264.1	11	13	93.4	97.0	54.3	54.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT 55	LAT 60	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	LAT 55	LAT 60		
254	3.2	55.6	56.1	265.4	262.1	11	4	86.7	89.8	58.7	56.6	4.2	593
		57.0	57.4	267.5	264.3	11	14	88.8	92.0	57.3	57.3		
		58.5	58.6	269.6	266.5	11	24	90.8	94.2	55.9	56.1		
1191	5.3	40.3	40.2	274.3	268.3	11	16	81.6	87.0	43.2	42.7	5.2	573
		41.7	41.4	276.1	270.5	11	26	83.5	89.1	41.7	41.4		
		43.1	42.7	278.0	272.6	11	36	85.3	91.3	40.3	40.2		
296	5.3	44.3	44.9	265.0	259.9	11	32	86.1	90.7	47.3	47.2	4.8	1414
		45.7	46.2	267.1	262.3	11	42	88.1	92.9	45.9	45.9		
		47.1	47.4	269.2	264.6	11	52	90.1	95.2	44.5	44.7		
287	2.0	51.5	51.5	272.5	269.5	12	2	80.3	83.9	54.6	53.9	5.3	1446
		53.0	52.7	274.4	270.7	12	12	82.2	85.9	53.2	52.7		
		54.4	54.0	276.4	272.8	12	22	84.1	88.1	51.8	51.4		
294	3.7	57.9	58.3	267.5	264.4	12	17	87.4	90.2	61.0	60.9	3.2	641
		59.4	59.5	269.6	266.6	12	27	89.4	92.3	59.5	59.6		
		60.8	60.9	271.6	268.9	12	37	91.5	94.5	58.1	58.4		
328	4.2	47.5	48.6	260.4	256.3	12	30	89.0	93.1	50.7	50.8	5.4	1441
		49.0	49.8	262.6	258.4	12	40	91.1	95.3	49.3	49.6		
		50.4	51.0	264.8	260.7	12	50	93.2	97.6	47.9	48.4		
1237	4.7	39.5	39.9	268.6	262.6	12	43	86.6	92.1	42.3	42.3	3.6	626
		41.0	41.2	270.7	264.9	12	53	88.6	94.3	40.9	41.0		
		42.4	42.4	272.7	267.2	13	3	90.6	96.6	39.5	39.8		
1217	5.2	56.5	56.6	270.0	267.5	12	58	82.2	85.2	59.6	59.1	3.8	681
		58.0	57.9	272.8	269.7	13	8	84.2	87.3	58.2	57.8		
		59.4	59.1	274.8	271.8	13	18	86.1	89.4	56.8	56.6		
323	4.2	53.2	53.5	269.0	265.3	13	10	86.1	89.5	56.2	56.0	3.8	674
		54.7	54.7	271.1	267.5	13	20	88.1	91.6	54.7	54.7		
		56.1	56.0	273.1	269.7	13	30	90.1	93.9	53.3	53.5		
352	3.3	45.6	45.9	269.0	264.1	13	20	81.4	85.8	48.7	48.1	4.0	672
		47.0	47.1	271.0	266.4	13	30	83.3	87.9	47.3	46.9		
		48.5	48.4	273.0	268.6	13	40	85.2	90.1	45.8	45.6		
352	3.3	47.7	47.9	272.0	267.5	13	35	80.9	85.0	50.7	50.1	4.3	1477
		49.2	49.0	274.0	269.7	13	45	82.8	87.1	49.3	48.9		
		50.6	50.3	276.0	271.9	13	55	84.7	89.2	47.9	47.6		
350	4.6	46.3	46.1	273.9	269.2	13	48	77.6	81.9	49.4	48.5	0.1	659
		47.7	47.4	275.9	271.3	13	58	79.4	84.0	48.0	47.3		
		49.1	48.5	277.8	273.4	14	8	81.3	86.0	46.6	46.0		
393	4.4	43.1	43.7	265.7	259.9	14	0	80.1	94.5	43.0	43.1	4.0	672
		44.5	44.9	267.9	262.3	14	10	81.2	96.8	41.5	41.9		
		45.9	43.2	269.9	264.6	14	20	83.3	99.1	40.1	40.6		
371	4.1	54.6	55.1	265.8	262.3	14	11	85.1	88.2	57.8	57.5	5.5	1458
		56.0	56.4	267.9	264.5	14	21	87.0	90.4	56.3	56.2		
		57.5	57.6	269.0	266.7	14	31	89.1	92.6	54.9	55.0		
371	4.1	56.6	56.9	268.7	265.4	14	25	83.6	86.5	59.7	59.3	3.2	732
		58.1	59.1	270.7	267.6	14	35	85.6	88.7	58.3	58.0		
		59.5	59.4	272.8	269.8	14	45	87.6	90.8	56.9	56.8		
390	4.4	45.5	45.4	273.5	269.6	14	38	80.2	84.7	48.4	47.7	4.5	724
		47.0	46.7	275.5	270.8	14	48	82.0	86.7	47.0	46.5		
		48.4	47.9	277.4	272.9	14	58	83.9	88.9	45.5	45.2		
1275	4.9	48.8	49.1	268.9	264.5	14	48	82.6	86.5	51.8	51.3	4.9	1510
		50.2	50.3	270.9	266.8	14	58	84.5	88.7	50.3	50.0		
		51.7	51.6	272.9	269.0	15	8	86.5	90.8	48.9	48.8		
1275	4.3	50.2	50.3	270.9	266.8	14	58	79.3	83.0	53.4	52.6	4.0	1521
		51.7	51.6	272.9	269.0	15	8	81.2	95.1	52.0	51.4		
		53.1	52.8	274.9	271.1	15	18	83.1	87.2	50.5	50.1		
425	3.7	45.6	46.1	266.4	261.5	15	11	87.0	91.5	48.5	48.4	4.9	1510
		47.0	47.3	268.5	263.9	15	21	89.0	93.7	47.0	47.2		
		48.4	48.6	270.6	266.1	15	31	91.1	96.0	45.6	45.9		
425	3.7	47.0	47.3	268.5	263.9	15	21	83.6	87.8	50.1	49.7	4.0	1521
		48.4	48.6	270.6	266.1	15	31	85.6	90.0	48.7	48.5		
		49.8	49.3	272.6	268.3	15	41	87.6	92.2	47.3	47.2		
1293	4.9	45.3	45.0	276.1	271.2	15	35	76.6	81.1	48.2	47.2	2.3	765
		46.7	46.2	278.0	273.3	15	45	78.3	83.1	46.8	46.0		
		48.1	47.5	279.9	275.4	15	55	80.1	85.1	45.4	44.7		
425	3.7	51.0	51.8	274.1	270.1	15	49	80.5	84.1	54.0	53.4	2.6	780
		52.4	52.1	276.1	272.2	15	59	82.4	86.2	52.6	52.1		
		53.9	53.3	278.0	274.3	16	9	84.3	88.3	51.2	50.9		
461	5.2	40.2	40.4	270.8	264.9	16	10	82.9	88.2	43.2	42.9	2.3	765
		41.6	41.6	272.8	267.2	16	20	84.8	90.4	41.8	41.6		
		43.1	42.9	274.8	269.4	16	30	86.7	92.6	40.4	40.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	Z.D.	Z.D.		
461	5.2	42.3	42.2	273.8	268.3	16	25	78.3	83.3	45.5	44.7	4.0	788
		43.8	43.5	275.7	270.5	16	35	80.1	85.3	44.1	43.4		
		45.2	44.7	277.6	272.6	16	45	81.9	87.4	42.6	42.2		
485	2.9	47.5	40.8	269.8	263.9	16	39	80.8	86.1	43.5	42.9	4.0	788
		41.9	42.0	271.8	266.2	16	49	82.6	88.2	42.1	41.7		
		43.4	43.3	273.8	268.5	16	59	84.5	90.4	40.6	40.4		
1322	4.8	56.6	57.4	262.3	259.1	16	49	91.8	94.8	59.5	59.8	4.8	1565
		59.0	58.7	264.4	261.4	16	59	93.9	97.0	58.1	58.6		
		59.5	59.9	266.6	263.6	17	9	96.0	99.3	56.7	57.3		
465	2.9	47.5	47.4	274.0	268.7	17	0	79.3	83.0	46.6	45.8	5.1	811
		44.9	44.6	275.9	270.9	17	10	80.1	85.0	45.2	44.6		
		46.4	45.9	277.8	273.0	17	20	81.9	87.1	43.8	43.3		
502	5.1	47.2	47.7	266.9	261.0	17	10	84.8	90.1	43.1	42.9	4.3	1556
		41.6	41.9	269.0	263.4	17	20	86.7	92.3	41.7	41.7		
		43.0	43.2	271.0	265.7	17	30	88.7	94.6	40.3	40.4		
1352	5.1	56.1	56.2	270.9	267.5	17	29	80.4	83.4	59.2	58.5	3.1	857
		57.6	57.4	272.9	269.7	17	39	82.3	85.5	57.8	57.3		
		59.0	58.7	274.9	271.9	17	49	84.2	87.6	56.4	56.0		
492	4.3	54.5	54.8	269.3	265.7	17	40	82.5	85.7	57.6	57.1	3.1	857
		56.0	56.0	271.3	267.9	17	50	84.4	87.8	56.2	55.9		
		57.4	57.3	273.3	270.1	18	0	86.4	89.9	54.8	54.6		
502	5.1	46.2	45.9	275.3	270.5	17	52	77.8	82.2	49.0	48.2	4.9	852
		47.6	47.2	277.2	272.7	18	2	79.6	84.2	47.6	46.9		
		47.0	48.4	279.1	274.7	18	12	81.4	86.3	46.2	45.7		
535	3.0	39.6	40.0	269.5	262.5	18	9	84.9	90.4	42.6	42.4	4.6	1583
		41.1	41.3	270.5	264.8	18	19	86.9	92.6	41.1	41.1		
		42.5	42.5	272.5	267.1	18	29	88.8	94.9	39.7	39.9		
1380	4.5	49.0	48.8	263.2	258.8	18	27	91.9	95.9	50.9	51.3	3.1	857
		49.4	51.0	265.4	261.2	18	37	94.0	98.2	49.5	50.0		
		50.9	51.3	267.5	263.5	18	47	96.1	100.5	48.1	48.8		
555	3.6	39.4	39.4	272.5	266.4	18	47	80.2	85.7	42.3	41.7	3.6	869
		40.9	41.7	274.5	268.7	18	57	82.0	87.8	40.9	40.4		
		42.3	41.9	276.4	270.8	19	7	83.8	89.9	39.4	39.2		
1383	4.0	56.1	55.4	267.4	264.0	19	8	83.9	87.0	58.1	57.7	2.2	1
		56.5	56.7	269.5	266.2	19	18	85.8	89.1	56.7	56.5		
		57.9	57.9	271.5	268.4	19	28	87.9	91.3	55.3	55.2		
557	4.7	53.5	54.0	265.9	262.2	19	20	86.2	89.6	56.4	56.2	2.2	1
		54.0	55.2	268.0	264.5	19	30	88.2	91.8	55.0	55.0		
		56.3	56.5	270.0	266.7	19	40	90.3	94.0	53.5	53.7		
579	2.3	51.3	52.2	262.1	258.3	19	34	89.1	92.6	54.4	54.5	2.2	1
		52.8	53.4	264.3	260.6	19	44	91.1	94.9	53.0	53.2		
		54.2	54.6	266.5	262.9	19	54	93.2	97.1	51.5	52.0		
572	3.7	52.5	52.8	268.6	264.8	19	48	84.3	87.7	55.5	55.1	3.5	20
		53.0	54.0	270.6	267.1	19	58	86.2	89.9	54.1	53.9		
		55.4	55.3	272.6	269.2	20	8	88.2	92.0	52.6	52.6		
593	4.0	51.7	52.4	262.9	259.1	20	0	88.0	91.6	54.8	54.8	4.5	19
		53.1	53.7	265.1	261.4	20	10	90.1	93.8	53.4	53.6		
		54.5	54.0	267.2	263.7	20	20	92.1	96.0	52.0	52.3		
578	2.3	57.2	57.3	277.8	267.6	20	15	84.5	87.4	60.1	59.7	4.7	45
		58.6	58.5	272.8	269.8	20	25	86.5	89.5	58.7	58.5		
		60.1	59.8	274.8	271.9	20	35	88.5	91.7	57.2	57.2		
592	4.2	55.5	55.8	268.7	265.3	20	27	86.9	89.9	58.4	58.2	4.7	45
		56.0	57.0	270.7	267.5	20	37	88.9	92.1	56.9	57.0		
		58.4	59.3	272.8	269.7	20	47	90.9	94.3	55.5	55.7		
592	4.0	56.9	57.0	270.7	267.5	20	37	80.5	83.4	60.0	59.3	3.6	64
		58.4	58.3	272.8	269.7	20	47	82.4	85.5	58.5	58.0		
		59.8	59.5	274.7	271.8	20	57	84.4	87.6	57.1	56.8		
643	3.4	40.6	41.1	266.5	260.7	20	51	86.1	91.4	43.5	43.4	3.9	33
		42.0	42.3	268.6	263.1	21	1	88.1	93.6	42.1	42.1		
		43.4	43.6	270.6	265.4	21	11	90.1	95.9	40.6	40.9		
1446	5.3	47.1	47.3	269.4	264.8	21	7	83.7	87.9	49.9	49.6	5.5	1047
		48.5	48.6	271.4	267.0	21	17	85.6	90.0	48.5	48.3		
		49.9	49.8	273.4	269.2	21	27	87.6	92.2	47.1	47.1		
1441	5.4	51.3	51.3	271.7	267.7	21	18	80.3	83.9	54.4	53.7	4.1	79
		52.7	52.5	273.7	269.9	21	28	82.2	86.0	53.0	52.4		
		54.1	53.8	275.7	272.0	21	38	84.1	88.1	51.5	51.2		
1447	5.2	58.2	58.5	268.4	265.3	21	28	82.0	84.8	61.3	60.7	4.6	54
		59.7	59.7	270.4	267.5	21	38	83.9	86.9	59.9	59.5		
		61.1	61.0	272.5	269.7	21	48	85.9	89.0	58.4	58.2		

CATNO	MAG	BEST STAR		AZ		LST		AZ		BEST STAR		MAG	CATNO
		Z. C.	Z. C.	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	Z. C.	Z. C.		
641	3.2	56.5	56.2	266.2	262.9	21	40	84.3	87.3	59.6	59.2	4.6	94
		57.2	56.2	263.2	265.1	21	50	86.3	89.4	58.1	58.0		
		58.3	56.4	270.3	267.4	22	0	88.3	91.6	56.7	56.7		
667	3.5	51.3	52.0	264.1	260.1	21	51	88.0	91.6	54.3	54.3	5.4	1068
		52.9	53.3	266.2	262.4	22	1	90.1	93.8	52.9	53.1		
		54.2	54.5	268.3	264.7	22	11	92.1	96.1	51.5	51.8		
681	3.9	49.4	50.2	263.2	259.3	22	4	90.7	94.5	52.5	52.7	5.4	1068
		50.9	51.4	265.3	261.3	22	14	92.8	96.8	51.0	51.4		
		52.3	52.7	267.4	263.6	22	24	94.9	99.1	49.6	50.2		
672	4.0	46.5	46.2	275.8	271.0	22	16	77.7	82.0	49.4	48.5	3.7	109
		48.2	47.5	277.6	273.1	22	26	79.5	84.0	48.0	47.2		
		49.4	49.7	279.5	275.2	22	36	81.3	86.1	46.5	46.0		
674	3.3	55.2	55.1	272.5	269.3	22	37	78.5	81.6	58.3	57.5	2.9	144
		56.6	56.3	274.5	271.2	22	47	80.4	83.7	56.9	56.2		
		58.0	57.6	276.5	273.3	22	57	82.3	85.8	55.5	55.0		
712	5.1	41.8	42.3	266.7	261.1	22	48	83.6	88.6	44.8	44.5	3.7	109
		43.2	43.5	268.8	263.5	22	58	85.5	90.8	43.4	43.2		
		44.6	44.9	270.8	265.8	23	8	87.4	93.0	42.0	42.0		
724	4.5	40.5	40.9	269.1	263.3	22	58	85.5	90.8	43.4	43.2	3.7	109
		41.9	42.1	271.1	265.6	23	8	87.4	93.0	42.0	42.0		
		43.4	43.3	273.1	267.8	23	18	89.4	95.3	40.5	40.7		
740	5.	39.8	39.5	264.8	258.7	23	10	87.8	93.4	41.7	41.7	3.7	109
		40.2	41.7	267.0	261.1	23	20	89.8	95.7	40.3	40.5		
		41.6	42.0	269.1	263.5	23	30	91.9	98.1	38.8	39.3		
724	4.5	43.8	43.7	273.7	268.5	23	21	78.8	83.5	46.8	46.0	3.0	147
		45.2	44.9	275.6	270.6	23	31	80.6	85.5	45.4	44.8		
		46.6	46.2	277.5	272.8	23	41	82.4	87.6	44.0	43.5		
1512	3.3	45.6	45.9	269.0	264.0	23	31	84.5	89.0	48.5	48.2	4.1	146
		47.0	47.2	270.9	266.3	23	41	86.5	91.1	47.1	46.9		
		48.5	48.4	272.0	268.5	23	51	88.4	93.3	45.6	45.7		
713	3.3	53.7	53.3	276.8	273.1	23	46	78.6	82.0	56.5	55.6	2.9	181
		55.1	54.5	278.7	275.2	23	56	80.5	84.0	55.1	54.4		
		56.6	55.3	280.6	277.3	24	6	82.4	86.1	53.6	53.1		

POSITION LINE OBSERVATION PREDICTION

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-60	A LAT-58	LAT-60		B LAT-58	HRS MIN
1584	5.4	311.2	3.0	309.7	45.7	-1.0 44.4	0 42
849	5.3	314.1	3.0	312.7	45.7	-0.9 44.4	0 47
1597	5.4	318.3	3.1	317.0	45.7	-0.9 44.2	0 48
873	3.8	312.6	3.0	311.1	45.7	-1.0 44.3	1 26
1612	4.2	316.4	3.1	315.0	45.7	-0.9 44.3	1 29
1043	5.1	311.2	3.0	309.7	45.6	-1.0 44.3	3 50
71	4.2	312.9	3.0	311.4	45.7	-1.0 44.4	4 16
102	4.8	313.2	3.0	311.8	45.7	-0.9 44.3	5 6
1099	4.3	311.3	3.0	309.8	45.6	-1.0 44.3	5 58
161	5.3	314.6	3.0	313.1	45.7	-0.9 44.3	6 32
204	3.0	314.4	3.0	312.9	45.7	-0.9 44.3	7 40
222	3.9	314.1	3.0	312.6	45.7	-0.9 44.3	8 4
1247	5.2	313.6	3.0	312.2	45.6	-0.9 44.3	11 47
559	4.7	318.2	3.1	316.8	45.7	-0.9 44.3	17 13
1413	5.0	318.5	3.1	317.1	45.8	-0.9 44.3	17 42
1415	5.1	316.8	3.1	315.4	45.7	-0.9 44.3	17 58
597	2.9	318.2	3.1	316.9	45.7	-0.9 44.2	18 6
1463	4.9	311.2	3.0	309.6	45.7	-1.0 44.4	20 4
682	4.0	313.4	3.0	311.9	45.7	-0.9 44.3	20 28
710	3.6	313.0	3.0	311.6	45.7	-1.0 44.4	21 13
720	3.0	313.4	3.0	311.9	45.7	-0.9 44.3	21 24
1517	5.1	317.9	3.1	316.5	45.7	-0.9 44.3	21 48

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-60	A LAT-58	LAT-60		B LAT-58	HRS MIN
102	4.8	46.8	3.0	48.3	45.7	1.0 44.4	0 34
1099	4.3	48.9	3.0	50.4	45.7	1.0 44.4	1 11
161	5.3	45.3	3.0	46.7	45.7	0.9 44.3	2 8
204	3.0	45.5	3.0	47.0	45.7	0.9 44.3	3 15
222	3.9	45.9	3.0	47.4	45.7	0.9 44.3	3 37
1247	5.2	46.5	3.0	48.0	45.7	0.9 44.3	7 17
559	4.7	41.9	3.1	43.2	45.8	0.9 44.3	13 9
1413	5.0	41.4	3.1	42.8	45.7	0.9 44.3	13 40
1415	5.1	43.3	3.1	44.7	45.7	0.9 44.3	13 46
597	2.9	41.9	3.1	43.3	45.7	0.9 44.3	14 2
1463	4.9	48.7	3.0	50.2	45.7	1.0 44.3	15 21
682	4.0	46.7	3.0	48.1	45.7	0.9 44.3	15 57
710	3.6	47.0	3.0	48.5	45.7	1.0 44.4	16 40
720	3.0	46.7	3.0	48.1	45.7	0.9 44.3	16 53
1517	5.1	42.2	3.1	43.6	45.8	0.9 44.3	17 42
1584	5.4	48.8	3.0	50.3	45.7	1.0 44.4	19 59
849	5.3	45.6	3.0	47.1	45.7	0.9 44.3	20 21
1597	5.4	41.7	3.1	43.0	45.7	0.9 44.2	20 45
873	3.8	47.3	3.0	48.8	45.7	1.0 44.3	20 51
1612	4.2	43.6	3.1	45.0	45.7	0.9 44.3	21 15
1043	5.1	48.8	3.0	50.4	45.6	1.0 44.3	23 7
71	4.2	47.2	3.0	48.6	45.7	1.0 44.4	23 42

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-60	A LAT-58	LAT-60		B LAT-58	HRS MIN
648	3.8	223.8	1.2	222.5	44.3	-0.9 45.7	0 6
686	4.3	222.1	1.2	220.9	44.3	-0.9 45.8	1 5
785	3.7	228.0	1.3	226.6	44.4	-0.9 45.7	3 14
841	2.9	224.5	1.2	223.1	44.2	-0.9 45.7	4 51
877	4.1	228.5	1.3	227.0	44.3	-1.0 45.6	5 35
23	4.5	230.0	1.3	228.5	44.3	-1.0 45.7	6 56
54	0.6	230.4	1.3	228.9	44.4	-1.0 45.7	7 49
39	5.3	221.4	1.2	220.1	44.2	-0.8 45.8	7 53
72	3.0	221.0	1.2	220.5	44.3	-0.8 45.8	8 43
84	5.5	224.4	1.2	223.0	44.3	-0.9 45.7	8 59
110	5.2	225.6	1.2	224.2	44.3	-0.9 45.7	9 33
1110	4.4	222.3	1.2	221.0	44.2	-0.9 45.7	10 41
189	4.9	230.2	1.3	228.6	44.3	-1.0 45.6	11 18
262	3.3	221.3	1.2	220.0	44.3	-0.8 45.8	13 35
315	1.7	226.3	1.2	224.9	44.3	-0.9 45.7	14 49
1233	5.3	226.8	1.3	225.4	44.4	-0.9 45.7	15 22
336	4.0	224.1	1.2	222.7	44.2	-0.9 45.7	15 30
351	2.3	226.8	1.2	225.3	44.3	-0.9 45.7	15 42
393	4.1	227.0	1.3	226.5	44.3	-0.9 45.6	16 48
1264	3.4	222.7	1.2	221.3	44.3	-0.9 45.8	16 58
397	3.6	222.1	1.2	220.7	44.2	-0.9 45.7	17 15
1289	4.0	227.4	1.3	225.9	44.3	-0.9 45.7	17 31
443	4.2	223.1	1.2	221.7	44.2	-0.9 45.7	18 25
455	3.1	227.9	1.3	226.4	44.3	-0.9 45.7	18 35
481	1.5	226.0	1.2	224.6	44.3	-0.9 45.7	19 15
1347	4.6	223.4	1.2	222.0	44.3	-0.9 45.8	20 0
518	0.9	224.6	1.2	223.2	44.3	-0.9 45.7	20 36
538	0.3	223.6	1.2	222.2	44.3	-0.9 45.9	21 16
561	4.2	227.7	1.3	226.2	44.3	-0.9 45.7	21 38
1435	3.7	227.1	1.3	225.7	44.3	-0.9 45.7	23 12

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-60	A LAT-58	LAT-60		B LAT-58	HRS MIN
262	3.3	138.7	1.2	140.0	44.3	0.8 45.8	0 1
315	1.7	133.7	1.2	135.1	44.3	0.9 45.7	1 55
336	4.0	135.9	1.2	137.3	44.3	0.9 45.7	2 19
1233	5.3	133.2	1.3	134.6	44.4	0.9 45.7	2 31
351	2.3	133.2	1.2	134.7	44.3	0.9 45.7	2 51
1264	3.4	137.3	1.2	138.6	44.3	0.9 45.8	3 35
397	3.6	138.0	1.2	139.3	44.3	0.8 45.8	3 47
393	4.1	132.1	1.3	133.6	44.3	0.9 45.7	4 6
1289	4.0	132.6	1.3	134.0	44.3	0.9 45.7	4 45
443	4.2	136.9	1.2	138.3	44.2	0.9 45.7	5 6
455	3.1	132.1	1.3	133.6	44.3	0.9 45.7	5 53
481	1.5	134.0	1.2	135.4	44.3	0.9 45.7	6 18
1347	4.6	136.6	1.2	137.9	44.3	0.9 45.7	6 43
518	0.9	135.3	1.2	136.7	44.3	0.9 45.7	7 29
538	0.3	136.3	1.2	137.7	44.3	0.9 45.7	8 1
561	4.2	132.3	1.3	133.8	44.3	0.9 45.7	8 54
1435	3.7	132.9	1.3	134.3	44.3	0.9 45.7	10 24
648	3.8	136.1	1.2	137.5	44.2	0.9 45.7	10 53
686	4.3	137.8	1.2	139.1	44.3	0.9 45.8	11 38
785	3.7	131.9	1.3	133.4	44.3	0.9 45.7	14 53
841	2.9	135.5	1.2	136.9	44.3	0.9 45.7	15 43
877	4.1	131.6	1.3	133.0	44.3	1.0 45.7	16 57
39	5.3	138.6	1.2	139.9	44.2	0.8 45.8	18 20
23	4.5	139.0	1.3	131.5	44.3	1.0 45.6	18 29
72	3.0	138.2	1.2	139.5	44.3	0.8 45.8	19 13
54	0.6	129.6	1.3	131.1	44.4	1.0 45.7	19 25
84	5.5	135.6	1.2	137.0	44.3	0.9 45.7	19 50
110	5.2	134.5	1.2	135.9	44.3	0.9 45.7	20 33
1110	4.4	137.8	1.2	139.1	44.3	0.9 45.8	21 15
189	4.8	129.9	1.3	131.4	44.4	1.0 45.7	22 52

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
1597	5.4	312.4	3.0	310.9	45.6	-1.0	44.3	1 3
1612	4.2	310.7	3.0	309.2	45.7	-1.0	44.4	1 43
1621	5.3	316.7	3.1	315.3	45.8	-0.9	44.3	1 48
22	2.2	317.9	3.1	316.5	45.7	-0.9	44.3	2 44
207	2.7	318.7	3.1	317.4	45.8	-0.9	44.3	7 31
243	2.0	318.7	3.1	317.0	45.8	-0.9	44.3	8 22
1212	4.6	316.9	3.1	315.6	45.7	-0.9	44.3	10 3
373	5.2	315.1	3.0	313.7	45.7	-1.0	44.3	12 3
1283	4.2	317.6	3.1	316.2	45.7	-0.9	44.2	13 1
1301	4.9	317.2	3.1	315.9	45.8	-0.9	44.3	13 47
1345	4.8	317.4	3.1	316.1	45.7	-0.9	44.3	15 20
510	5.1	318.0	3.1	316.6	45.8	-0.9	44.3	15 50
559	4.7	312.3	3.0	310.8	45.7	-1.0	44.4	17 28
1413	5.0	312.5	3.0	311.0	45.7	-1.0	44.4	17 57
1415	5.1	311.2	3.0	309.6	45.6	-1.0	44.3	18 12
597	2.9	312.3	3.0	310.8	45.6	-1.0	44.3	18 21
624	5.0	318.3	3.1	317.9	45.8	-0.9	44.3	18 38
722	5.0	318.6	3.0	313.2	45.7	-1.0	44.4	21 27
1517	5.1	311.9	3.0	310.4	45.7	-1.0	44.4	22 3
773	5.3	317.7	3.1	315.9	45.8	-0.9	44.3	22 42

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
686	4.3	222.8	1.1	221.4	44.3	-0.9	45.8	0 48
704	4.4	221.4	1.1	220.1	44.3	-0.9	45.8	1 22
785	3.7	228.3	1.2	226.8	44.3	-1.0	45.7	3 0
841	2.9	224.9	1.1	223.5	44.3	-0.9	45.7	4 36
977	4.1	228.6	1.2	227.1	44.4	-1.0	45.7	5 22
23	4.5	228.1	1.2	228.6	44.3	-1.0	45.6	6 43
39	5.3	222.0	1.1	220.7	44.3	-0.9	45.8	7 36
54	0.6	220.5	1.2	229.0	44.3	-1.0	45.6	7 36
72	3.0	222.4	1.1	221.1	44.3	-0.9	45.8	8 26
84	5.5	224.9	1.1	223.5	44.3	-0.9	45.7	8 43
110	5.2	225.9	1.1	224.5	44.3	-1.0	45.7	9 18
1110	4.4	222.8	1.1	221.5	44.3	-0.9	45.8	10 25
189	4.8	230.3	1.2	228.7	44.3	-1.0	45.6	11 5
262	3.3	222.0	1.1	220.7	44.2	-0.9	45.7	13 17
315	1.7	226.6	1.1	225.1	44.3	-1.0	45.7	14 35
1233	5.3	227.2	1.2	225.7	44.3	-1.0	45.7	15 7
336	4.0	224.5	1.1	223.1	44.3	-0.9	45.8	15 15
351	2.3	227.1	1.2	225.7	44.3	-1.0	45.7	15 27
1254	4.2	221.0	1.1	219.7	44.3	-0.9	45.8	16 18
393	4.1	228.2	1.2	226.7	44.3	-1.0	45.6	16 34
1264	3.4	223.3	1.1	221.9	44.3	-0.9	45.7	16 41
397	3.6	222.7	1.1	221.3	44.2	-0.9	45.7	16 58
1289	4.0	227.7	1.2	226.3	44.3	-1.0	45.6	17 16
443	4.2	223.6	1.1	222.2	44.3	-0.9	45.7	18 9
455	3.1	228.2	1.2	226.7	44.3	-1.0	45.6	18 21
481	1.5	226.4	1.1	224.9	44.3	-1.0	45.7	19 0
1347	4.6	224.0	1.1	222.6	44.2	-0.9	45.7	19 43
518	0.9	225.1	1.1	223.7	44.2	-1.0	45.7	20 20
538	0.3	224.2	1.1	222.8	44.2	-0.9	45.7	20 59
561	4.2	227.9	1.2	226.5	44.3	-1.0	45.7	21 24
1435	3.7	227.4	1.2	225.9	44.3	-1.0	45.7	22 58
648	3.8	224.3	1.1	222.9	44.3	-0.9	45.7	23 50

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
207	2.7	41.2	3.1	42.5	45.7	0.9	44.3	3 33
243	2.0	41.6	3.1	42.9	45.7	0.9	44.2	4 22
1212	4.6	43.0	3.1	44.4	45.7	0.9	44.3	5 55
373	5.2	44.9	3.1	46.3	45.7	1.0	44.3	7 45
1283	4.2	42.6	3.1	44.0	45.8	0.9	44.3	8 56
1301	4.9	42.6	3.1	44.0	45.7	0.9	44.3	9 41
1345	4.8	42.5	3.1	43.8	45.7	0.9	44.3	11 15
510	5.1	41.9	3.1	43.3	45.7	0.9	44.3	11 48
559	4.7	47.8	3.0	49.3	45.7	1.0	44.4	12 54
1413	5.0	47.3	3.0	48.8	45.7	1.0	44.3	13 25
1415	5.1	48.9	3.0	50.5	45.7	1.0	44.4	13 32
597	2.9	47.9	3.0	49.4	45.7	1.0	44.4	13 47
624	5.0	40.7	3.1	42.0	45.7	0.9	44.2	14 43
722	5.0	45.4	3.0	46.8	45.7	1.0	44.3	17 6
1517	5.1	47.9	3.0	49.4	45.6	1.0	44.3	17 28
773	5.3	42.7	3.1	44.0	45.8	0.9	44.3	18 36
1597	5.4	47.6	3.0	49.1	45.6	1.0	44.3	20 30
1612	4.2	49.2	3.0	50.7	45.6	1.0	44.4	21 1
1621	5.3	43.1	3.1	44.5	45.7	0.9	44.3	21 39
22	2.2	42.2	3.1	43.5	45.7	0.9	44.3	22 41

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
262	3.3	138.0	1.1	139.3	44.2	0.9	45.7	0 19
315	1.7	133.3	1.1	134.8	44.3	1.0	45.7	2 10
336	4.0	135.4	1.1	136.8	44.2	0.9	45.7	2 35
1233	5.3	132.8	1.2	134.3	44.3	1.0	45.7	2 46
351	2.3	132.9	1.2	134.3	44.3	1.0	45.7	3 6
1254	4.2	138.9	1.1	140.2	44.2	0.9	45.7	3 12
1264	3.4	136.7	1.1	138.1	44.3	0.9	45.7	3 52
397	3.6	137.4	1.1	138.7	44.3	0.9	45.8	4 4
393	4.1	131.9	1.2	133.3	44.3	1.0	45.7	4 20
1289	4.0	132.3	1.2	133.8	44.3	1.0	45.7	4 59
443	4.2	136.4	1.1	137.8	44.3	0.9	45.7	5 22
455	3.1	131.9	1.2	133.3	44.3	1.0	45.7	6 7
481	1.5	133.7	1.1	135.1	44.3	1.0	45.7	6 33
1347	4.6	136.1	1.1	137.5	44.3	0.9	45.7	6 59
518	0.9	135.0	1.1	136.4	44.3	1.0	45.8	7 44
538	0.3	135.8	1.1	137.2	44.3	0.9	45.7	8 17
561	4.2	132.1	1.2	133.5	44.3	1.0	45.7	9 8
1435	3.7	132.6	1.2	134.1	44.4	1.0	45.7	10 38
648	3.8	135.6	1.1	137.0	44.2	0.9	45.7	11 9
686	4.3	137.2	1.1	138.6	44.3	0.9	45.7	11 55
704	4.4	138.5	1.1	139.8	44.2	0.9	45.7	12 19
785	3.7	131.6	1.2	133.1	44.3	1.0	45.6	14 47
841	2.9	135.0	1.1	136.4	44.2	0.9	45.7	15 59
877	4.1	131.3	1.2	132.8	44.3	1.0	45.7	17 11
39	5.3	138.0	1.1	139.3	44.3	0.9	45.8	18 37
23	4.5	129.9	1.2	131.4	44.3	1.0	45.6	18 42
72	3.0	137.5	1.1	138.8	44.2	0.9	45.7	19 31
54	0.6	129.4	1.2	131.0	44.3	1.0	45.6	19 38
84	5.5	135.2	1.1	136.6	44.3	0.9	45.8	20 5
110	5.2	134.1	1.1	135.5	44.3	1.0	45.7	20 48
1110	4.4	137.2	1.1	138.5	44.3	0.9	45.8	21 32
189	4.8	129.8	1.2	131.3	44.4	1.0	45.7	23 5

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-54	A LAT-52	LAT-54	B LAT-52	HRS	MIN
866	3.5	313.6	3.0	312.2	45.7 -1.1	44.4	1 4
894	4.6	317.9	3.1	316.4	45.7 -1.0	44.3	1 41
59	3.7	313.4	3.0	312.0	45.7 -1.1	44.3	2 54
1171	4.8	315.7	3.1	314.3	45.7 -1.1	44.3	4 36
172	4.0	318.8	3.1	317.4	45.8 -1.0	44.3	6 34
1144	3.3	312.7	3.0	311.2	45.7 -1.1	44.4	7 25
219	3.7	317.2	3.1	315.8	45.7 -1.0	44.3	7 47
226	3.8	319.5	3.1	318.2	45.7 -1.0	44.2	7 50
257	1.6	311.6	3.0	310.0	45.6 -1.1	44.3	9 0
271	4.1	314.8	3.0	313.4	45.7 -1.1	44.3	9 10
1202	5.1	318.3	3.1	316.9	45.7 -1.0	44.3	9 43
311	5.1	314.3	3.0	312.9	45.7 -1.1	44.3	10 21
364	5.1	319.1	3.1	317.8	45.8 -1.0	44.3	11 35
389	4.1	311.2	3.0	309.7	45.7 -1.1	44.4	12 42
410	3.3	317.3	3.0	311.8	45.7 -1.1	44.3	13 0
426	3.8	317.7	3.1	316.3	45.8 -1.0	44.3	13 18
465	3.1	312.2	3.0	310.7	45.7 -1.1	44.4	14 43
1387	5.1	313.6	3.0	312.2	45.7 -1.1	44.4	17 0
548	2.9	313.7	3.0	312.2	45.7 -1.1	44.3	17 0
577	4.0	317.7	3.1	316.3	45.7 -1.0	44.2	17 34
1417	4.7	319.1	3.1	317.7	45.8 -1.0	44.3	17 53
1419	5.5	312.0	3.0	310.5	45.7 -1.1	44.4	18 14
658	3.6	315.4	3.1	314.0	45.7 -1.1	44.3	19 42
696	4.7	317.9	3.1	316.6	45.8 -1.0	44.3	20 27
727	4.6	313.6	3.0	312.1	45.7 -1.1	44.3	21 31
1512	5.5	312.5	3.0	311.0	45.7 -1.1	44.3	21 53
1514	5.1	313.1	3.0	311.6	45.6 -1.1	44.3	21 53
1522	5.1	314.8	3.0	313.4	45.7 -1.1	44.3	22 4
762	3.3	317.1	3.1	315.7	45.7 -1.0	44.3	22 21
1561	4.3	317.9	3.0	316.3	45.6 -1.2	44.4	23 30
912	3.8	311.1	3.0	309.6	45.7 -1.1	44.4	23 56
810	3.0	313.0	3.0	311.5	45.6 -1.1	44.3	23 58

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-54	A LAT-52	LAT-54	B LAT-52	HRS	MIN
686	4.3	223.1	0.9	221.8	44.2 -1.0	45.7	0 17
704	4.4	221.9	0.9	220.6	44.3 -1.0	45.8	0 50
785	3.7	228.2	1.0	226.7	44.3 -1.1	45.6	2 34
841	2.9	225.1	0.9	223.7	44.3 -1.1	45.7	4 7
877	4.1	228.5	1.0	227.0	44.3 -1.1	45.6	4 56
23	4.5	229.7	1.0	228.2	44.4 -1.1	45.7	6 19
39	5.3	222.5	0.9	221.2	44.2 -1.0	45.7	7 4
54	0.6	230.2	1.0	228.7	44.3 -1.1	45.6	7 12
72	3.0	222.9	0.9	221.5	44.3 -1.0	45.8	7 55
84	5.5	224.9	0.9	223.5	44.3 -1.0	45.8	8 15
110	5.2	226.0	0.9	224.6	44.3 -1.1	45.7	8 50
1110	4.4	223.2	0.9	221.8	44.3 -1.0	45.7	9 54
156	3.4	221.4	0.9	220.1	44.2 -1.0	45.7	10 15
189	4.8	229.9	1.0	228.4	44.3 -1.1	45.6	10 41
212	3.8	221.4	0.9	220.1	44.3 -1.0	45.8	11 35
262	3.3	222.4	0.9	221.1	44.3 -1.0	45.8	12 46
315	1.7	226.5	1.0	225.1	44.4 -1.1	45.7	14 8
1233	5.3	227.0	1.0	225.6	44.4 -1.1	45.7	14 41
336	4.0	224.7	0.9	223.3	44.3 -1.0	45.9	14 46
351	2.3	227.2	1.0	225.5	44.3 -1.1	45.7	15 1
1254	4.2	221.6	0.9	220.3	44.2 -1.0	45.7	15 45
393	3.1	227.0	1.0	226.4	44.4 -1.1	45.7	16 0
1264	3.4	223.6	0.9	222.2	44.3 -1.0	45.8	16 11
397	3.6	222.9	0.9	221.6	44.3 -1.0	45.8	16 28
1289	4.0	227.6	1.0	226.1	44.3 -1.1	45.6	16 50
436	3.3	220.8	0.8	219.5	44.2 -1.0	45.8	17 38
443	4.2	223.0	0.9	222.5	44.3 -1.0	45.7	17 39
455	3.1	227.9	1.0	226.4	44.4 -1.1	45.7	17 56
481	1.5	226.1	0.9	224.0	44.3 -1.1	45.7	18 33
1347	4.6	224.2	0.9	222.8	44.3 -1.0	45.7	19 14
518	0.9	225.2	0.9	223.8	44.3 -1.1	45.7	19 52
538	0.3	224.4	0.9	223.0	44.3 -1.0	45.7	20 30
561	4.2	227.8	1.0	226.3	44.3 -1.1	45.7	20 58
1435	3.7	227.4	1.0	225.9	44.3 -1.1	45.6	22 31
648	3.8	224.5	0.9	223.1	44.3 -1.0	45.7	23 21

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-54	A LAT-52	LAT-54	B LAT-52	HRS	MIN
1071	4.8	44.4	3.1	45.8	45.7 1.1	44.3	0 26
172	4.0	41.1	3.1	42.4	45.7 1.0	44.2	2 41
1144	3.3	47.0	3.0	48.5	45.6 1.1	44.3	3 0
219	3.7	42.9	3.1	44.2	45.7 1.0	44.3	3 45
226	3.8	40.5	3.1	41.8	45.7 1.0	44.2	4 1
257	1.6	48.6	3.0	50.1	45.7 1.1	44.4	4 28
271	4.1	45.4	3.0	46.8	45.7 1.1	44.4	4 55
1202	5.1	41.7	3.1	43.1	45.7 1.0	44.3	5 47
311	5.1	45.6	3.0	47.1	45.7 1.1	44.3	6 4
364	5.0	40.8	3.1	42.1	45.7 1.0	44.2	7 44
389	4.1	48.6	3.0	50.1	45.6 1.1	44.3	8 9
410	3.3	46.8	3.0	48.3	45.7 1.1	44.4	8 37
426	3.8	42.2	3.1	43.6	45.7 1.0	44.3	9 19
465	3.1	47.7	3.0	49.2	45.7 1.1	44.3	10 15
548	2.9	46.5	3.0	48.0	45.7 1.1	44.4	12 39
1387	5.3	46.1	3.0	47.6	45.6 1.1	44.3	12 40
577	4.0	42.6	3.1	44.0	45.8 1.0	44.3	13 34
1419	5.5	47.8	3.0	49.3	45.6 1.1	44.3	13 45
1417	4.7	40.7	3.1	42.0	45.7 1.0	44.2	14 2
658	3.6	44.5	3.1	45.9	45.7 1.1	44.3	15 31
696	4.7	42.1	3.1	43.5	45.8 1.0	44.3	16 29
727	4.6	46.5	3.0	47.9	45.7 1.1	44.3	17 10
1512	5.5	47.6	3.0	49.1	45.7 1.1	44.4	17 26
1514	5.1	47.1	3.0	48.6	45.7 1.1	44.4	17 29
1522	5.1	45.0	3.0	46.5	45.7 1.1	44.3	17 50
762	3.3	42.8	3.1	44.2	45.7 1.0	44.2	18 19
1561	4.3	49.3	3.0	50.8	45.7 1.2	44.4	19 3
812	3.8	48.8	3.0	50.4	45.7 1.1	44.4	19 22
819	3.0	47.0	3.0	48.5	45.6 1.1	44.3	19 34
866	3.5	46.4	3.0	47.9	45.7 1.1	44.4	20 43
894	4.6	42.3	3.1	43.7	45.8 1.0	44.3	21 42
59	3.7	46.7	3.0	48.1	45.7 1.1	44.3	23 32

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-54	A LAT-52	LAT-54	B LAT-52	HRS	MIN
262	3.3	137.6	0.9	138.9	44.3 1.0	45.7	0 50
315	1.7	133.4	0.9	134.8	44.3 1.1	45.7	2 37
336	4.0	135.3	0.9	136.7	44.2 1.0	45.7	3 4
1233	5.3	133.0	1.0	134.4	44.4 1.1	45.7	3 12
351	2.3	133.0	1.0	134.5	44.3 1.1	45.7	3 32
1254	4.2	138.4	0.9	139.7	44.3 1.0	45.8	3 44
1264	3.4	136.4	0.9	137.8	44.3 1.0	45.7	4 22
397	3.6	137.0	0.9	138.4	44.3 1.0	45.8	4 35
393	4.1	132.0	1.0	133.5	44.3 1.1	45.6	4 46
1289	4.0	132.5	1.0	133.9	44.3 1.1	45.7	5 25
436	3.3	139.2	0.8	140.5	44.2 1.0	45.7	5 32
443	4.2	136.1	0.9	137.5	44.3 1.0	45.7	5 52
455	3.1	132.0	1.0	133.5	44.3 1.1	45.6	6 33
481	1.5	133.7	0.9	135.1	44.3 1.1	45.7	7 0
1347	4.6	135.8	0.9	137.2	44.2 1.0	45.7	7 29
518	0.9	134.8	0.9	136.2	44.3 1.1	45.7	8 13
538	0.3	135.6	0.9	137.0	44.3 1.0	45.8	8 46
561	4.2	132.2	1.0	133.7	44.3 1.1	45.7	9 34
1435	3.7	132.7	1.0	134.1	44.3 1.1	45.7	11 5
648	3.8	135.5	0.9	136.8	44.3 1.0	45.7	11 38
686	4.3	136.8	0.9	138.2	44.2 1.0	45.7	12 26
704	4.4	138.1	0.9	139.4	44.2 1.0	45.7	12 51
785	3.7	131.9	1.0	133.4	44.3 1.1	45.7	15 12
841	2.9	135.0	0.9	136.4	44.3 1.1	45.7	16 27
877	4.1	131.6	1.0	133.1	44.3 1.1	45.7	17 36
23	4.5	130.3	1.0	131.8	44.3 1.1	45.7	19 6
39	5.3	137.5	0.9	138.8	44.2 1.0	45.7	19 9
72	3.0	137.2	0.9	138.5	44.3 1.0	45.8	20 1
54	0.6	129.8	1.0	131.3	44.3 1.1	45.6	20 2
84	5.5	135.0	0.9	136.4	44.3 1.0	45.7	20 34
110	5.2	134.0	0.9	135.5	44.3 1.1	45.7	21 16
1110	4.4	136.8	0.9	138.1	44.3 1.0	45.7	22 3
156	3.4	138.6	0.9	139.9	44.2 1.0	45.8	22 13
199	4.8	130.1	1.0	131.6	44.3 1.1	45.7	23 29
212	3.8	138.6	0.9	139.9	44.3 1.0	45.8	23 32

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT-52	A	LAT-50	LAT-52	B	LAT-50	HRS	MIN
828	4.4	314.6	3.0	313.2	45.7	-1.1	44.3	0	12
861	4.2	315.4	3.1	314.0	45.7	-1.1	44.3	0	53
894	4.6	312.5	3.0	311.0	45.7	-1.2	44.4	1	54
1066	4.9	319.4	3.1	318.1	45.8	-1.0	44.3	4	19
1071	4.8	319.7	3.0	309.1	45.6	-1.2	44.3	4	48
97	4.4	314.6	3.0	313.1	45.7	-1.1	44.3	4	50
149	3.2	315.7	3.1	314.3	45.7	-1.1	44.3	6	1
172	4.0	313.4	3.0	312.0	45.7	-1.2	44.3	6	47
1146	4.3	317.0	3.1	315.6	45.7	-1.1	44.2	7	19
219	3.7	312.1	3.0	311.6	45.6	-1.2	44.3	7	59
226	3.8	313.9	3.0	312.4	45.7	-1.1	44.3	8	4
1202	5.1	312.9	3.0	311.5	45.7	-1.2	44.3	9	56
325	5.2	319.4	3.1	318.1	45.8	-1.0	44.2	10	33
364	5.0	313.8	3.0	312.4	45.7	-1.1	44.3	11	48
381	3.8	320.0	3.1	318.7	45.7	-1.0	44.2	12	2
1261	4.7	317.6	3.1	316.2	45.7	-1.1	44.3	12	3
426	3.8	312.3	3.0	310.8	45.7	-1.2	44.4	13	31
1371	4.6	316.8	3.1	315.4	45.7	-1.1	44.2	16	19
577	4.0	312.3	3.0	310.8	45.7	-1.2	44.3	17	47
1417	4.7	313.7	3.0	312.3	45.7	-1.2	44.3	18	6
696	4.7	312.6	3.0	311.1	45.7	-1.2	44.4	20	40
1527	4.6	318.9	3.1	317.5	45.8	-1.0	44.3	22	12
761	3.8	318.7	3.1	317.3	45.8	-1.1	44.3	22	13
762	3.3	312.1	3.0	310.6	45.6	-1.2	44.3	22	33
1562	5.5	317.6	3.1	316.2	45.7	-1.1	44.3	23	22
1577	5.2	315.4	3.0	313.9	45.8	-1.1	44.4	23	57

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT-52	A	LAT-50	LAT-52	B	LAT-50	HRS	MIN
686	4.3	222.9	0.8	221.6	44.3	-1.1	45.7	0	3
704	4.4	221.8	0.8	220.5	44.2	-1.0	45.8	0	35
785	3.7	227.8	0.9	226.3	44.3	-1.2	45.7	2	22
825	4.7	230.5	0.9	229.0	44.3	-1.2	45.6	3	24
841	2.9	224.8	0.8	223.4	44.3	-1.1	45.7	3	54
877	4.1	228.0	0.9	226.6	44.4	-1.2	45.7	4	45
23	4.5	229.3	0.9	227.9	44.4	-1.2	45.7	6	8
39	5.3	222.3	0.8	221.0	44.3	-1.0	45.8	6	50
54	0.6	229.7	0.9	228.2	44.3	-1.2	45.6	7	1
72	3.0	222.7	0.8	221.4	44.2	-1.1	45.7	7	40
84	5.5	224.7	0.8	223.4	44.3	-1.1	45.7	9	1
110	5.2	225.7	0.8	224.3	44.2	-1.1	45.7	8	37
1111	4.4	223.1	0.8	221.7	44.3	-1.1	45.8	9	40
156	3.4	221.3	0.7	220.0	44.2	-1.0	45.7	10	0
189	4.8	229.4	0.9	227.9	44.3	-1.2	45.7	10	30
212	3.8	221.4	0.7	220.1	44.2	-1.0	45.7	11	19
262	3.3	222.3	0.8	221.0	44.2	-1.0	45.7	12	31
315	1.7	226.3	0.8	224.8	44.3	-1.1	45.7	13	55
1233	5.3	226.8	0.9	225.3	44.3	-1.1	45.7	14	28
336	4.0	224.5	0.8	223.1	44.2	-1.1	45.7	14	32
351	2.3	226.7	0.8	225.3	44.3	-1.1	45.7	14	48
361	3.0	230.4	0.9	228.8	44.3	-1.2	45.6	14	53
1254	4.2	221.5	0.8	220.2	44.2	-1.0	45.7	15	30
393	4.1	227.6	0.9	226.1	44.4	-1.1	45.7	15	57
1264	3.4	223.4	0.8	222.0	44.3	-1.1	45.8	15	57
397	3.6	222.8	0.8	221.5	44.2	-1.1	45.7	16	13
1289	4.0	227.2	0.9	225.8	44.3	-1.1	45.7	16	38
443	4.2	223.7	0.8	222.3	44.2	-1.1	45.7	17	25
455	3.1	227.5	0.9	226.1	44.4	-1.1	45.7	17	44
468	1.6	230.2	0.9	228.7	44.4	-1.2	45.7	17	53
481	1.5	226.1	0.8	224.6	44.3	-1.1	45.7	18	20
1347	4.6	224.0	0.8	222.6	44.3	-1.1	45.7	19	0
518	0.9	224.0	0.8	222.5	44.3	-1.1	45.8	19	39
538	0.3	224.1	0.8	222.8	44.3	-1.1	45.8	20	17
561	4.2	227.4	0.9	226.0	44.3	-1.1	45.7	20	46
1435	3.7	227.0	0.9	225.5	44.3	-1.1	45.7	22	19
648	3.8	224.3	0.8	222.9	44.3	-1.1	45.7	23	7

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT-52	A	LAT-50	LAT-52	B	LAT-50	HRS	MIN
1071	4.8	49.4	2.9	51.0	45.7	1.2	44.4	0	14
1066	4.9	40.6	3.1	41.9	45.8	1.0	44.3	0	31
97	4.4	45.2	3.0	46.7	45.6	1.1	44.3	0	37
149	3.2	44.4	3.1	45.8	45.8	1.1	44.3	1	53
172	4.0	46.4	3.0	47.9	45.6	1.2	44.3	2	28
1146	4.3	43.1	3.1	44.5	45.7	1.1	44.3	3	18
219	3.7	47.9	3.0	49.4	45.6	1.2	44.3	3	33
226	3.8	46.1	3.0	47.5	45.7	1.1	44.3	3	47
1202	5.1	47.1	3.0	48.6	45.7	1.2	44.3	5	34
325	5.2	40.6	3.1	41.9	45.8	1.0	44.3	6	45
364	5.0	46.4	3.0	47.9	45.7	1.2	44.4	7	30
1261	4.7	42.5	3.1	43.9	45.8	1.1	44.3	8	5
381	3.8	40.1	3.1	41.4	45.8	1.0	44.2	8	17
426	3.8	47.6	3.0	49.1	45.7	1.2	44.4	9	6
1371	4.6	43.3	3.1	44.7	45.7	1.1	44.2	12	17
577	4.0	47.6	3.0	49.1	45.6	1.2	44.3	13	22
1417	4.7	46.3	3.0	47.8	45.7	1.2	44.4	13	48
696	4.7	47.1	3.0	48.6	45.6	1.2	44.3	16	17
762	3.3	48.1	3.0	49.6	45.7	1.2	44.4	18	6
1527	4.6	41.2	3.1	42.5	45.8	1.0	44.3	18	21
761	3.8	41.3	3.1	42.6	45.8	1.1	44.3	18	21
1562	5.5	42.5	3.1	43.9	45.8	1.1	44.3	19	24
1577	5.2	44.5	3.1	45.9	45.7	1.1	44.3	19	48
828	4.4	45.3	3.0	46.8	45.6	1.1	44.3	19	59
861	4.2	44.6	3.0	46.0	45.7	1.1	44.3	20	44
894	4.6	47.4	3.0	48.9	45.6	1.2	44.3	21	30

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT-52	A	LAT-50	LAT-52	B	LAT-50	HRS	MIN
262	3.3	137.7	0.8	139.0	44.2	1.0	45.7	1	5
315	1.7	133.7	0.8	135.2	44.3	1.1	45.7	2	49
336	4.0	135.5	0.8	136.9	44.3	1.1	45.7	3	17
1233	5.3	133.2	0.9	134.7	44.3	1.1	45.7	3	25
351	2.3	133.3	0.8	134.7	44.3	1.1	45.7	3	45
1254	4.2	138.5	0.8	139.8	44.3	1.0	45.8	3	59
361	3.1	129.7	0.9	131.2	44.4	1.2	45.7	4	8
1264	3.4	136.6	0.8	138.0	44.3	1.1	45.7	4	36
397	3.6	137.2	0.8	138.5	44.3	1.1	45.8	4	49
393	4.1	132.4	0.9	133.8	44.3	1.1	45.7	4	58
1289	4.0	132.8	0.9	134.3	44.4	1.1	45.7	5	37
443	4.2	136.3	0.8	137.7	44.3	1.1	45.7	6	6
455	3.1	132.4	0.9	133.8	44.3	1.1	45.6	6	45
468	1.6	129.8	0.9	131.3	44.4	1.2	45.7	7	7
481	1.5	134.0	0.8	135.4	44.3	1.1	45.7	7	13
1347	4.6	136.1	0.8	137.5	44.3	1.1	45.8	7	42
518	0.9	135.1	0.8	136.5	44.3	1.1	45.7	8	26
538	0.3	135.8	0.8	137.2	44.3	1.1	45.7	9	0
561	4.2	132.6	0.9	134.0	44.3	1.1	45.7	9	46
1435	3.7	133.0	0.9	134.5	44.3	1.1	45.7	11	17
648	3.8	135.7	0.8	137.1	44.3	1.1	45.8	11	51
686	4.3	137.0	0.8	138.4	44.2	1.1	45.7	12	40
704	4.4	138.2	0.8	139.5	44.2	1.0	45.7	13	6
785	3.7	132.3	0.9	133.7	44.3	1.2	45.7	15	24
825	4.7	129.5	0.9	131.0	44.3	1.2	45.6	16	40
841	2.9	135.2	0.8	136.6	44.3	1.1	45.8	16	40
877	4.1	131.9	0.9	133.4	44.3	1.2	45.7	17	48
23	4.5	130.7	0.9	132.2	44.4	1.2	45.7	19	17
39	5.3	137.7	0.8	139.0	44.3	1.0	45.8	19	23
54	0.6	130.3	0.9	131.8	44.3	1.2	45.6	20	13
72	3.0	137.3	0.8	138.6	44.2	1.1	45.7	20	16
84	5.5	135.2	0.8	136.6	44.2	1.1	45.7	20	48
110	5.2	134.3	0.8	135.7	44.3	1.1	45.7	21	29
1110	4.4	137.0	0.8	138.3	44.3	1.1	45.7	22	17
156	3.4	138.7	0.7	140.0	44.3	1.0	45.8	22	28
189	4.8	130.6	0.9	132.1	44.4	1.2	45.7	23	40
212	3.8	138.7	0.8	140.0	44.3	1.0	45.8	23	47

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-50	A	LAT-48	LAT-50	B	LAT-48	HRS MIN
1577	5.2	310.6	2.9	310.1	45.7	-1.3	44.4	0 8
1591	4.9	319.0	3.1	317.6	45.8	-1.1	44.3	0 24
861	4.2	310.4	2.9	308.9	45.7	-1.3	44.4	1 5
37	5.2	319.2	3.1	317.9	45.7	-1.1	44.2	2 47
62	3.9	320.1	3.1	318.8	45.8	-1.1	44.3	3 47
1151	4.8	319.0	3.1	317.6	45.8	-1.1	44.3	3 43
1166	4.9	314.1	3.0	312.7	45.7	-1.2	44.4	4 32
149	3.2	311.7	2.9	309.4	45.6	-1.3	44.3	6 12
1146	4.3	312.7	3.0	310.5	45.6	-1.2	44.3	7 31
1171	5.4	316.9	3.1	315.5	45.7	-1.1	44.2	8 23
266	4.3	315.3	3.0	313.9	45.7	-1.2	44.3	8 57
325	5.2	314.1	3.0	312.7	45.7	-1.2	44.3	10 46
1261	4.7	312.6	3.0	311.1	45.7	-1.2	44.3	12 15
381	3.9	310.7	3.0	310.2	45.6	-1.2	44.3	12 15
498	1.2	316.9	3.1	316.7	45.8	-1.1	44.3	15 21
1371	4.6	311.7	3.0	310.2	45.6	-1.2	44.3	16 31
622	2.7	319.9	3.1	318.6	45.7	-1.1	44.2	18 38
1439	4.7	310.0	3.1	317.7	45.3	-1.1	44.3	18 43
1527	4.6	313.6	3.0	312.1	45.7	-1.2	44.4	22 25
761	3.8	317.7	3.0	312.2	45.6	-1.2	44.3	22 25
794	4.5	317.0	3.1	315.6	45.7	-1.1	44.3	23 8
1562	5.5	312.6	3.0	311.1	45.7	-1.2	44.3	23 34
818	5.4	317.0	3.1	315.6	45.7	-1.1	44.3	23 45

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-50	A	LAT-48	LAT-50	B	LAT-48	HRS MIN
704	4.4	221.5	2.6	220.2	44.3	-1.1	45.8	0 21
764	2.1	233.0	2.8	228.5	44.3	-1.2	45.6	1 35
785	3.7	227.2	2.8	225.8	44.4	-1.2	45.7	2 11
925	4.7	229.9	2.8	228.4	44.3	-1.2	45.6	3 13
841	2.9	224.4	2.7	223.0	44.3	-1.1	45.7	3 41
877	4.1	227.5	2.8	226.1	44.3	-1.2	45.7	4 33
23	4.5	228.8	2.8	227.3	44.3	-1.2	45.6	5 56
39	5.3	222.0	2.7	220.7	44.3	-1.1	45.8	6 36
54	2.6	229.1	2.8	227.6	44.3	-1.2	45.6	6 50
72	3.0	222.3	2.7	221.0	44.3	-1.1	45.8	7 27
84	5.5	224.3	2.7	223.0	44.3	-1.1	45.7	7 48
113	5.2	225.2	2.7	223.8	44.3	-1.1	45.7	8 25
1110	4.4	222.7	2.7	221.3	44.3	-1.1	45.7	9 26
156	3.4	221.0	2.6	219.7	44.3	-1.1	45.8	9 46
189	4.8	228.9	2.8	227.4	44.3	-1.2	45.7	10 19
212	3.8	221.0	2.6	219.7	44.3	-1.1	45.8	11 5
272	5.3	233.0	2.8	228.5	44.3	-1.2	45.6	12 15
262	3.3	222.0	2.7	220.6	44.2	-1.1	45.7	12 17
315	1.7	225.8	2.7	224.4	44.3	-1.2	45.8	13 43
1233	5.3	226.3	2.7	224.8	44.3	-1.2	45.7	14 16
326	4.0	224.1	2.7	222.7	44.3	-1.1	45.7	14 19
351	2.3	226.2	2.7	224.8	44.3	-1.2	45.7	14 36
361	3.0	229.7	2.8	228.2	44.4	-1.2	45.7	14 43
1254	4.2	221.2	2.6	219.9	44.3	-1.1	45.8	15 16
1264	3.4	223.0	2.7	221.7	44.2	-1.1	45.7	15 43
393	4.1	227.1	2.8	225.6	44.3	-1.2	45.7	15 45
327	3.6	222.5	2.7	221.2	44.2	-1.1	45.7	15 59
1289	4.0	226.7	2.7	225.3	44.3	-1.2	45.7	16 26
443	4.2	223.2	2.7	221.9	44.3	-1.1	45.8	17 12
455	3.1	227.1	2.8	225.6	44.3	-1.2	45.7	17 37
468	1.6	229.7	2.8	228.2	44.3	-1.2	45.6	17 42
481	1.5	225.6	2.7	224.2	44.4	-1.2	45.8	18 8
1347	4.6	223.6	2.7	222.2	44.3	-1.1	45.7	18 47
519	2.9	224.5	2.7	223.1	44.3	-1.1	45.7	19 26
538	2.7	223.8	2.7	222.4	44.2	-1.1	45.7	21 3
561	4.2	226.9	2.8	225.5	44.3	-1.2	45.7	20 34
1435	3.7	226.5	2.7	225.1	44.3	-1.2	45.7	22 7
608	3.8	223.9	2.7	222.5	44.3	-1.1	45.7	22 54
696	4.3	222.6	2.7	221.3	44.2	-1.1	45.7	23 49

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-50	A	LAT-48	LAT-50	B	LAT-48	HRS MIN
1066	4.9	45.9	3.0	47.3	45.7	1.2	44.3	0 18
149	3.2	49.1	2.9	50.6	45.6	1.3	44.4	1 42
1146	4.3	48.1	3.0	49.6	45.7	1.2	44.4	3 6
1171	5.4	43.3	3.1	44.7	45.7	1.1	44.3	4 23
266	4.3	44.8	3.0	46.2	45.7	1.2	44.3	4 49
325	5.2	45.9	3.0	47.4	45.7	1.2	44.3	6 32
1261	4.7	47.5	3.0	49.0	45.7	1.2	44.4	7 53
381	3.8	45.4	3.0	46.8	45.7	1.2	44.3	8 4
498	1.2	41.7	3.1	43.1	45.7	1.1	44.2	11 28
1371	4.6	49.3	3.0	49.8	45.6	1.2	44.3	12 5
622	2.7	40.1	3.1	41.5	45.7	1.1	44.2	14 44
1438	4.7	40.8	3.1	42.1	45.7	1.1	44.2	14 55
1527	4.6	46.5	3.0	47.9	45.7	1.2	44.4	18 8
761	3.8	46.3	3.0	47.8	45.6	1.2	44.3	18 9
794	4.5	43.0	3.1	44.4	45.7	1.1	44.3	19 9
1562	5.5	47.5	3.0	49.0	45.7	1.2	44.4	19 12
1577	5.2	49.2	2.9	50.7	45.6	1.3	44.3	19 37
818	5.4	43.0	3.1	44.4	45.7	1.1	44.2	19 46
861	4.2	49.3	2.9	50.9	45.6	1.3	44.3	20 33
1591	4.9	41.1	3.1	42.4	45.8	1.1	44.3	20 35
30	5.2	40.9	3.1	42.2	45.8	1.1	44.3	22 55
1051	4.8	41.1	3.1	42.4	45.8	1.1	44.3	23 54
62	3.9	39.9	3.1	41.2	45.8	1.1	44.2	23 59

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-50	A	LAT-48	LAT-50	B	LAT-48	HRS MIN
212	3.8	139.0	2.6	140.3	44.2	1.1	45.8	0 2
262	3.3	138.0	2.7	139.3	44.2	1.1	45.7	1 19
272	5.3	129.9	2.8	131.4	44.3	1.2	45.6	1 53
315	1.7	134.2	2.7	135.6	44.3	1.2	45.7	3 2
336	4.3	135.9	2.7	137.3	44.3	1.1	45.7	3 30
1233	5.3	133.7	2.7	135.2	44.3	1.2	45.7	3 37
351	2.3	133.8	2.7	135.2	44.3	1.2	45.7	3 57
1254	4.2	138.8	2.6	140.1	44.2	1.1	45.7	4 14
361	3.0	130.2	2.8	131.7	44.3	1.2	45.6	4 19
1264	3.4	136.9	2.7	138.3	44.2	1.1	45.7	4 50
397	3.6	137.5	2.7	138.9	44.3	1.1	45.6	5 3
393	4.1	133.0	2.8	134.4	44.4	1.2	45.7	5 9
1289	4.2	133.3	2.7	134.7	44.3	1.2	45.7	5 49
443	4.2	136.7	2.7	138.1	44.3	1.1	45.8	6 19
455	3.1	132.9	2.8	134.4	44.4	1.2	45.7	6 56
468	1.6	130.3	2.8	131.8	44.3	1.2	45.7	7 18
481	1.5	134.4	2.7	135.8	44.2	1.2	45.7	7 26
1347	4.6	136.4	2.7	137.8	44.2	1.1	45.7	7 56
519	2.9	135.5	2.7	136.9	44.3	1.1	45.7	8 39
538	2.7	136.2	2.7	137.6	44.3	1.1	45.7	9 13
561	4.2	133.1	2.8	134.5	44.3	1.2	45.7	9 58
1435	3.7	133.5	2.7	134.9	44.3	1.2	45.7	11 29
648	3.8	136.1	2.7	137.5	44.3	1.1	45.8	12 4
686	4.3	137.4	2.7	138.7	44.2	1.1	45.7	12 54
704	4.4	138.5	2.6	139.8	44.2	1.1	45.8	13 20
764	2.1	139.0	2.8	131.5	44.3	1.2	45.6	15 13
785	3.7	132.7	2.8	134.2	44.3	1.2	45.7	15 36
825	4.7	130.2	2.8	131.7	44.4	1.2	45.7	16 50
841	2.9	135.6	2.7	137.0	44.3	1.1	45.8	16 52
877	4.1	132.4	2.8	133.9	44.3	1.2	45.6	18 0
23	4.5	131.3	2.8	132.8	44.4	1.2	45.7	19 28
39	5.3	138.0	2.7	139.3	44.3	1.1	45.8	19 37
54	2.6	130.9	2.8	132.3	44.3	1.2	45.6	20 24
72	3.7	137.6	2.7	139.0	44.2	1.1	45.7	20 30
84	5.5	135.7	2.7	137.1	44.3	1.1	45.8	21 0
110	5.2	134.8	2.7	136.2	44.3	1.1	45.8	21 41
1110	4.4	137.3	2.7	138.7	44.2	1.1	45.7	22 31
156	3.4	139.0	2.6	140.3	44.2	1.1	45.7	22 43
189	4.8	131.2	2.8	132.6	44.4	1.2	45.7	23 51

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D	L. S. T		
		LAT-48	A	LAT-46	LAT-48		B	LAT-46	HRS MIN
1591	4.9	314.0	3.0	312.5	45.7	-1.2	44.3	0	36
1608	4.5	318.4	3.1	317.1	45.8	-1.1	44.3	1	10
1609	5.2	316.9	3.1	315.5	45.7	-1.2	44.3	1	17
0	3.8	319.4	3.1	318.1	45.7	-1.1	44.2	2	11
30	5.2	313.9	3.0	312.4	45.7	-1.2	44.4	2	56
40	3.6	315.2	3.0	313.8	45.7	-1.2	44.3	3	11
62	3.9	314.8	3.0	313.3	45.7	-1.2	44.4	3	55
151	4.8	314.0	3.0	312.5	45.7	-1.2	44.3	3	55
104	4.1	319.1	3.1	317.7	45.8	-1.1	44.3	4	49
1591	4.9	319.2	3.1	317.9	45.8	-1.1	44.3	5	8
127	3.8	317.3	3.1	316.0	45.8	-1.2	44.3	5	30
135	3.7	316.6	3.1	315.2	45.7	-1.2	44.3	5	42
190	4.3	319.7	3.1	318.4	45.8	-1.1	44.3	7	0
220	2.2	317.2	3.1	315.8	45.7	-1.2	44.2	7	45
1171	5.4	311.9	2.9	310.4	45.7	-1.3	44.4	8	35
266	4.3	310.6	2.9	309.1	45.6	-1.3	44.4	9	8
293	4.1	317.5	3.1	316.1	45.8	-1.2	44.3	9	38
1299	4.8	317.1	3.1	315.8	45.7	-1.2	44.2	13	34
1335	4.9	317.8	3.1	316.4	45.7	-1.2	44.3	14	53
499	1.2	313.0	3.0	311.6	45.7	-1.3	44.4	15	33
523	4.3	315.6	3.0	314.2	45.7	-1.2	44.3	16	14
564	2.7	318.1	3.1	316.7	45.8	-1.2	44.3	17	12
1409	4.8	316.2	3.0	314.7	45.7	-1.2	44.3	17	34
622	2.7	314.6	3.0	313.1	45.7	-1.2	44.3	18	41
1438	4.7	314.0	3.0	312.6	45.7	-1.2	44.3	18	55
673	3.5	316.9	3.1	315.5	45.7	-1.2	44.2	19	57
1486	4.7	319.9	3.1	317.6	45.7	-1.1	44.2	20	35
781	3.8	317.5	3.1	316.1	45.7	-1.2	44.2	22	44
1547	4.8	318.7	3.1	317.4	45.8	-1.1	44.3	22	46
794	4.5	312.0	3.0	310.5	45.7	-1.3	44.4	23	20
918	5.4	312.0	2.9	310.5	45.7	-1.3	44.4	23	57

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T		
		LAT-48	A	LAT-46	LAT-48		B	LAT-46	HRS
104	4.1	40.9	3.1	42.2	45.8	1.1	44.3	1	2
1091	4.9	40.7	3.1	42.0	45.8	1.1	44.3	1	22
127	3.8	42.6	3.1	44.0	45.8	1.2	44.3	1	34
135	3.7	43.5	3.0	44.9	45.8	1.2	44.3	1	42
190	4.3	40.4	3.1	41.7	45.8	1.1	44.3	3	16
220	2.2	43.0	3.1	44.4	45.7	1.2	44.3	3	48
1171	5.4	48.0	3.0	49.5	45.6	1.3	44.3	4	12
266	4.3	49.5	2.9	51.1	45.7	1.3	44.4	4	38
293	4.1	42.4	3.1	43.8	45.7	1.2	44.3	5	43
1299	4.8	43.0	3.1	44.3	45.7	1.2	44.3	9	37
1335	4.9	42.1	3.1	43.4	45.7	1.2	44.2	10	57
498	1.2	46.7	3.0	48.2	45.6	1.3	44.3	11	16
523	4.3	44.5	3.0	46.0	45.8	1.2	44.4	12	9
564	2.7	41.9	3.1	43.2	45.7	1.2	44.3	13	20
1409	4.8	43.9	3.0	45.3	45.7	1.2	44.3	13	32
622	2.7	45.5	3.0	46.9	45.7	1.2	44.3	14	31
1438	4.7	46.1	3.0	47.6	45.7	1.2	44.4	14	42
673	3.5	43.1	3.1	44.5	45.7	1.2	44.2	15	59
1486	4.7	41.2	3.1	42.5	45.8	1.1	44.3	16	47
781	3.8	42.6	3.1	43.9	45.7	1.2	44.2	18	49
794	4.5	48.0	2.9	49.5	45.7	1.3	44.4	18	57
1547	4.8	41.0	3.1	42.3	45.7	1.1	44.2	18	58
818	5.4	48.0	3.0	49.5	45.7	1.3	44.4	19	34
1591	4.9	46.1	3.0	47.5	45.7	1.2	44.3	20	23
1609	5.2	43.1	3.1	44.4	45.7	1.2	44.3	21	19
1608	4.5	41.5	3.1	42.8	45.7	1.1	44.2	21	21
9	3.8	40.9	3.1	42.2	45.8	1.1	44.3	22	25
30	5.2	45.9	3.0	47.4	45.7	1.2	44.3	22	43
40	3.6	44.8	3.0	46.3	45.8	1.2	44.4	23	4
1051	4.8	46.1	3.0	47.5	45.7	1.2	44.3	23	42
62	3.9	45.2	3.0	46.6	45.7	1.2	44.3	23	46

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T		
		LAT-48	A	LAT-46	LAT-48		B	LAT-46	HRS MIN
734	4.4	221.0	0.5	219.7	44.3	-1.1	45.8	0	7
739	5.5	229.9	0.7	228.4	44.3	-1.3	45.6	0	46
764	2.1	229.3	0.7	227.8	44.3	-1.3	45.7	1	25
785	3.7	226.6	0.6	225.2	44.3	-1.2	45.7	1	59
825	4.7	229.1	0.7	227.6	44.3	-1.3	45.7	1	3
841	2.9	223.8	0.6	222.5	44.2	-1.2	45.7	3	28
877	4.1	226.0	0.6	225.4	44.4	-1.2	45.7	4	22
23	4.5	228.0	0.7	226.6	44.4	-1.3	45.7	5	46
30	5.3	221.5	0.5	220.2	44.2	-1.1	45.8	6	22
54	0.6	224.5	0.7	222.7	44.3	-1.3	45.6	6	39
72	3.0	221.8	0.5	220.5	44.3	-1.1	45.8	7	13
84	5.5	223.7	0.6	222.4	44.2	-1.2	45.8	7	36
110	5.2	224.6	0.6	223.2	44.3	-1.2	45.8	9	13
1110	4.4	222.1	0.6	220.8	44.3	-1.1	45.8	9	13
189	4.8	228.2	0.7	226.7	44.3	-1.3	45.7	10	8
1156	4.4	230.2	0.7	228.7	44.4	-1.3	45.7	10	49
262	3.3	221.4	0.5	220.1	44.3	-1.1	45.8	12	4
272	5.3	229.3	0.7	227.9	44.4	-1.3	45.7	12	5
315	1.7	225.2	0.6	223.8	44.3	-1.2	45.8	13	31
1233	5.3	225.7	0.6	224.2	44.3	-1.2	45.7	14	4
236	4.0	223.5	0.6	222.2	44.2	-1.2	45.7	14	6
351	2.3	225.6	0.6	224.2	44.3	-1.2	45.7	14	24
361	3.0	229.0	0.7	227.5	44.2	-1.3	45.7	14	32
1264	3.4	222.5	0.6	221.2	44.3	-1.1	45.7	15	30
393	4.1	226.5	0.6	225.0	44.3	-1.2	45.7	15	33
397	3.6	222.0	0.5	220.6	44.2	-1.1	45.8	15	46
1289	4.0	226.1	0.6	224.6	44.4	-1.2	45.8	16	15
443	4.2	222.7	0.6	221.4	44.3	-1.1	45.8	16	59
455	3.1	226.5	0.6	225.0	44.3	-1.2	45.7	17	20
468	1.6	228.9	0.7	227.4	44.4	-1.3	45.7	17	32
481	1.5	225.0	0.6	223.6	44.2	-1.2	45.7	17	55
1347	4.6	221.0	0.6	221.7	44.3	-1.1	45.8	19	34
519	0.9	224.0	0.6	222.6	44.2	-1.2	45.7	19	13
529	4.4	210.1	0.7	228.5	44.3	-1.3	45.6	19	18
538	0.3	223.2	0.6	221.9	44.2	-1.2	45.7	19	50
561	4.2	226.3	0.6	224.9	44.3	-1.2	45.7	20	22
1435	3.7	225.9	0.6	224.5	44.3	-1.2	45.7	21	55
648	3.8	223.4	0.6	222.0	44.2	-1.2	45.7	22	41
686	4.3	222.1	0.6	220.7	44.3	-1.1	45.8	23	36

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T		
		LAT-48	A	LAT-46	LAT-48		F	LAT-46	HRS
189	4.8	131.8	0.7	133.3	44.4	1.3	45.7	0	2
1156	4.4	129.8	0.7	131.3	44.4	1.3	45.7	0	50
262	3.3	139.6	0.5	139.9	44.3	1.1	45.8	1	32
272	5.3	130.6	0.7	132.1	44.4	1.3	45.7	2	3
315	1.7	134.8	0.6	136.2	44.2	1.2	45.7	3	14
336	4.0	126.5	0.6	137.9	44.3	1.2	45.7	3	43
1233	5.3	134.3	0.6	135.7	44.3	1.2	45.7	3	49
351	2.3	134.4	0.6	135.8	44.3	1.2	45.7	4	9
361	3.0	131.0	0.7	132.5	44.4	1.3	45.7	4	29
1264	3.4	137.5	0.6	138.8	44.2	1.1	45.7	5	3
397	3.6	138.0	0.5	139.3	44.2	1.1	45.7	5	17
393	4.1	133.6	0.6	135.0	44.3	1.2	45.7	5	21
1289	4.0	133.9	0.6	135.3	44.3	1.2	45.7	6	1
443	4.2	137.3	0.6	138.6	44.3	1.1	45.8	6	32
455	3.1	133.6	0.6	135.0	44.3	1.2	45.7	7	9
468	1.6	131.0	0.7	132.5	44.3	1.3	45.6	7	29
481	1.5	135.0	0.6	136.4	44.3	1.2	45.7	7	38
1347	4.6	137.0	0.6	138.3	44.2	1.1	45.7	8	9
518	0.9	136.0	0.6	137.4	44.2	1.2	45.7	8	52
529	4.4	120.0	0.7	131.5	44.4	1.3	45.7	9	19
538	0.3	136.8	0.6	138.1	44.3	1.2	45.7	9	26
561	4.2	133.7	0.6	135.1	44.2	1.2	45.6	10	10
1435	3.7	134.1	0.6	135.5	44.3	1.2	45.7	11	41
648	3.8	136.7	0.6	138.0	44.3	1.2	45.8	12	17
686	4.3	137.9	0.6	139.2	44.3	1.1	45.8	13	7
704	4.4	129.0	0.5	140.3	44.2	1.1	45.8	13	34
739	5.5	130.1	0.7	131.6	44.3	1.3	45.6	14	47
764	2.1	130.8	0.7	132.3	44.4	1.3	45.7	15	23
785	3.7	133.4	0.6	134.9	44.4	1.2	45.7	15	47
825	4.7	120.8	0.7	132.3	44.3	1.3	45.6	17	1
841	2.9	136.2	0.6	137.6	44.3	1.2	45.7	17	6
877	4.1	133.1	0.6	134.6	44.3	1.2	45.7	18	11
23	4.5	132.0	0.7	133.4	44.4	1.3	45.7	19	39
39	5.3	138.5	0.5	139.8	44.3	1.1	45.8	19	51
54	0.6	131.6	0.7	133.1	44.4	1.3	45.7	20	44
72	3.0	138.2	0.5	139.5	44.3	1.1	45.8	20	43
84	5.5	136.3	0.6	137.6	44.3	1.2	45.8	21	13
110	5.2	135.3	0.6	136.7	44.2	1.2	45.7	21	54
1110	4.4	137.9	0.6	139.2	44.3	1.1	45.8	22	44

NW. QUADRANT								NE. QUADRANT											
CATNO	MAG	AZIMUTH			Z.D		L.S.T	CATNO	MAG	AZIMUTH			Z.D		L.S.T				
		LAT-46	A	LAT-44	LAT-46	B				LAT-44	LAT-46	A	LAT-44	LAT-46		B	LAT-44		
							HRS MIN								HRS MIN				
840	4.3	317.3	3.1	316.0	45.7	-1.2	44.2	0	13	104	4.1	45.9	3.0	47.3	45.7	1.3	44.3	0	50
864	3.8	317.7	3.1	316.3	45.8	-1.2	44.3	0	48	1091	4.9	45.7	3.0	47.1	45.7	1.3	44.3	1	10
1678	4.5	313.4	3.0	312.0	45.7	-1.3	44.4	1	22	127	3.8	47.3	2.9	48.8	45.7	1.3	44.4	1	23
1609	5.2	312.2	2.9	310.7	45.7	-1.3	44.3	1	28	135	3.7	47.9	2.9	49.4	45.6	1.3	44.3	1	32
9	3.8	314.4	3.0	312.9	45.7	-1.3	44.3	2	23	154	4.1	39.8	3.1	41.1	45.7	1.1	44.2	2	21
40	3.6	310.9	2.9	309.3	45.6	-1.4	44.3	3	21	190	4.3	45.4	3.0	46.8	45.7	1.3	44.3	3	4
47	3.8	315.9	3.0	314.5	45.8	-1.2	44.4	3	24	198	0.3	43.6	3.0	45.0	45.7	1.2	44.2	3	14
62	3.9	310.4	2.9	308.8	45.6	-1.4	44.4	4	5	195	3.7	39.7	3.1	41.0	45.7	1.1	44.2	3	27
104	4.1	314.1	3.0	312.6	45.7	-1.3	44.4	5	1	220	2.2	47.7	2.9	49.2	45.7	1.3	44.3	3	37
1191	4.9	314.3	3.0	312.8	45.8	-1.3	44.4	5	20	1170	5.1	42.5	3.1	43.8	45.7	1.2	44.2	4	22
127	3.9	312.7	2.9	311.2	45.7	-1.3	44.4	5	41	293	4.1	47.1	3.0	48.6	45.6	1.3	44.3	5	32
135	3.7	311.9	2.9	310.4	45.7	-1.3	44.3	5	53	354	2.2	44.8	3.0	46.2	45.7	1.3	44.3	7	24
154	4.1	320.2	3.1	318.9	45.7	-1.1	44.2	6	1	1263	5.4	43.2	3.0	44.5	45.8	1.2	44.3	8	18
195	3.7	320.1	3.1	318.8	45.8	-1.1	44.3	7	7	1299	4.8	47.7	2.9	49.1	45.6	1.3	44.3	9	26
190	4.3	314.7	3.0	313.3	45.7	-1.3	44.3	7	12	475	4.8	42.7	3.1	44.0	45.7	1.2	44.2	10	41
194	0.3	316.1	3.0	314.7	45.8	-1.2	44.3	7	14	1335	4.9	47.1	3.0	48.5	45.7	1.3	44.3	10	45
220	2.2	312.2	2.9	310.7	45.7	-1.3	44.4	7	57	1355	5.2	44.8	3.0	46.2	45.7	1.3	44.3	11	38
1170	5.1	317.4	3.1	316.0	45.7	-1.2	44.3	8	16	523	4.3	48.9	2.9	50.5	45.6	1.3	44.3	11	59
293	4.1	312.8	3.0	311.3	45.7	-1.3	44.3	9	49	1394	5.4	44.5	3.0	45.9	45.7	1.3	44.3	12	58
354	2.2	315.3	3.0	313.9	45.7	-1.3	44.3	11	29	564	2.7	46.6	3.0	48.0	45.6	1.3	44.3	13	9
1263	5.4	316.9	3.0	315.5	45.7	-1.2	44.3	12	15	1409	4.8	48.6	2.9	50.1	45.7	1.3	44.4	13	21
1299	4.8	312.2	2.9	310.7	45.7	-1.3	44.4	13	46	673	3.5	47.8	2.9	49.3	45.6	1.3	44.3	15	46
475	4.8	317.2	3.0	315.8	45.7	-1.2	44.3	14	36	1482	4.1	43.8	3.0	45.2	45.7	1.2	44.3	16	34
1335	4.9	312.8	2.9	311.3	45.7	-1.3	44.4	15	2	1486	4.7	46.2	3.0	47.6	45.7	1.3	44.4	16	35
1355	5.2	315.3	3.0	313.8	45.7	-1.3	44.3	15	43	702	5.1	43.9	3.0	45.3	45.7	1.2	44.3	16	42
523	4.3	311.0	2.9	309.4	45.7	-1.4	44.4	16	25	1500	5.4	43.1	3.0	44.5	45.8	1.2	44.3	17	13
1394	5.4	315.9	3.0	314.4	45.7	-1.2	44.2	17	1	737	5.0	40.5	3.1	41.8	45.8	1.2	44.3	17	44
564	2.7	313.4	3.0	311.9	45.6	-1.3	44.3	17	23	781	3.8	47.2	3.0	48.7	45.6	1.3	44.3	18	38
1409	4.8	311.5	2.9	309.9	45.7	-1.3	44.4	17	45	1547	4.8	46.0	3.0	47.4	45.7	1.3	44.3	18	46
673	3.5	312.2	2.9	310.7	45.6	-1.3	44.3	20	8	1569	4.8	42.8	3.1	44.2	45.7	1.2	44.2	19	39
1482	4.1	316.3	3.0	314.9	45.7	-1.2	44.2	20	34	840	4.3	42.8	3.0	44.2	45.7	1.2	44.3	20	18
702	5.1	316.0	3.0	314.6	45.7	-1.2	44.3	20	43	864	3.8	42.3	3.1	43.7	45.8	1.2	44.3	20	55
1486	4.7	313.9	3.0	312.5	45.7	-1.3	44.3	20	47	1609	5.2	47.7	2.9	49.2	45.7	1.3	44.3	21	8
1500	5.4	316.9	3.0	315.5	45.7	-1.2	44.3	21	10	1608	4.5	46.5	3.0	47.9	45.7	1.3	44.3	21	8
781	5.0	319.7	3.1	318.4	45.7	-1.2	44.2	21	27	9	3.8	45.8	3.0	47.3	45.8	1.3	44.4	22	13
781	3.8	312.5	2.9	311.0	45.7	-1.3	44.4	22	56	40	3.6	49.2	2.9	50.8	45.6	1.4	44.4	22	54
1547	4.8	314.1	3.0	312.6	45.6	-1.3	44.3	22	57	47	3.8	43.8	3.0	45.2	45.7	1.2	44.2	23	23
1569	4.8	317.0	3.0	315.6	45.8	-1.2	44.3	23	35	62	3.9	49.6	2.9	51.1	45.6	1.4	44.4	23	36

SW. QUADRANT								SE. QUADRANT											
CATNO	MAG	AZIMUTH			Z.D		L.S.T	CATNO	MAG	AZIMUTH			Z.D		L.S.T				
		LAT-46	A	LAT-44	LAT-46	B				LAT-44	LAT-46	A	LAT-44	LAT-46		B	LAT-44		
							HRS MIN								HRS MIN				
739	5.5	229.0	0.6	227.5	44.3	-1.3	45.7	0	36	189	4.8	132.6	0.6	134.1	44.3	1.3	45.7	0	13
764	2.1	229.4	0.6	226.9	44.4	-1.3	45.7	1	15	1156	4.4	130.7	0.6	132.2	44.4	1.3	45.7	1	0
785	3.7	225.8	0.5	224.4	44.3	-1.3	45.7	1	48	272	5.3	131.5	0.6	133.0	44.4	1.3	45.7	2	13
925	4.7	228.3	0.6	226.8	44.4	-1.3	45.7	2	53	315	1.7	135.5	0.5	136.9	44.2	1.2	45.7	3	26
941	2.9	223.1	0.5	221.7	44.3	-1.2	45.8	3	16	336	4.0	137.2	0.5	138.5	44.2	1.2	45.7	3	56
877	4.1	226.1	0.5	224.7	44.3	-1.3	45.7	4	10	1233	5.3	135.1	0.5	136.5	44.2	1.2	45.7	4	1
23	4.5	227.2	0.6	225.8	44.3	-1.3	45.7	5	35	351	2.3	135.1	0.5	136.5	44.2	1.2	45.7	4	21
54	0.6	227.6	0.6	226.1	44.3	-1.3	45.7	6	29	361	3.0	131.8	0.6	133.3	44.3	1.3	45.6	4	40
72	3.0	221.1	0.4	219.8	44.3	-1.1	45.8	7	0	1264	3.4	138.2	0.4	135.5	44.2	1.2	45.7	5	16
84	5.5	223.0	0.5	221.7	44.3	-1.2	45.7	7	23	397	3.6	138.7	0.4	140.0	44.2	1.2	45.8	5	30
110	5.2	223.9	0.5	222.5	44.3	-1.2	45.8	8	1	393	4.1	134.4	0.5	135.8	44.3	1.2	45.8	5	32
1114	4.4	221.5	0.4	220.2	44.2	-1.2	45.7	8	59	1289	4.0	134.7	0.5	136.1	44.3	1.2	45.8	6	12
189	4.8	227.4	0.6	225.9	44.3	-1.3	45.6	9	57	443	4.2	138.0	0.4	139.3	44.3	1.2	45.8	6	45
1156	4.4	229.3	0.6	227.8	44.4	-1.3	45.7	10	39	455	3.1	134.4	0.5	135.8	44.3	1.2	45.7	7	19
272	5.3	228.6	0.6	227.1	44.3	-1.3	45.6	11	54	468	1.6	131.9	0.6	132.4	44.3	1.3	45.7	7	39
315	1.7	224.4	0.5	223.1	44.3	-1.2	45.8	13	19	481	1.5	135.7	0.5	137.1	44.2	1.2	45.7	7	50
1233	5.3	224.9	0.5	223.5	44.2	-1.2	45.7	13	52	1347	4.6	137.7	0.4	135.0	44.2	1.2	45.7	8	22
336	4.0	222.8	0.5	221.4	44.3	-1.2	45.8	13	58	518	0.9	136.8	0.5	138.1	44.3	1.2	45.7	9	4
351	2.3	224.8	0.5	223.4	44.3	-1.2	45.8	14	13	529	4.4	130.9	0.6	132.4	44.4	1.3	45.7	9	29
361	3.0	228.2	0.6	226.7	44.4	-1.3	45.7	14	22	538	0.3	137.5	0.5	138.8	44.2	1.2	45.7	9	39
1264	3.4	221.8	0.4	220.5	44.3	-1.2	45.8	15	17	561	4.2	134.5	0.5	135.9	44.3	1.2	45.7	10</	

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-44	A	LAT-42	LAT-44	B	LAT-42	HRS MIN
840	4.3	312.7	2.9	311.2	45.6	-1.4	44.3	0 24
864	3.8	313.0	2.9	311.6	45.7	-1.4	44.4	0 59
1607	4.4	317.0	3.0	315.7	45.8	-1.3	44.3	1 11
1630	4.7	317.2	3.0	315.9	45.7	-1.3	44.3	1 58
1022	4.7	318.2	3.1	316.8	45.7	-1.2	44.2	1 59
47	3.8	311.6	2.9	310.0	45.7	-1.4	44.4	3 34
1097	4.8	319.9	3.1	318.6	45.8	-1.2	44.3	5 20
154	4.1	315.2	3.0	313.8	45.7	-1.3	44.3	6 13
188	2.9	320.0	3.1	318.7	45.8	-1.2	44.3	6 57
195	3.7	315.1	3.0	313.7	45.7	-1.3	44.3	7 19
190	4.3	310.4	2.9	308.8	45.6	-1.4	44.4	7 22
194	3.3	311.8	2.9	310.3	45.6	-1.4	44.3	7 24
209	2.9	317.9	3.0	316.5	45.7	-1.2	44.3	7 30
1170	5.1	312.7	2.9	311.2	45.7	-1.4	44.4	8 27
354	2.2	310.9	2.9	309.4	45.6	-1.4	44.3	11 39
1263	5.4	312.3	2.9	310.8	45.7	-1.4	44.4	12 26
475	4.8	312.5	2.9	311.0	45.7	-1.4	44.4	14 47
490	4.5	319.2	3.1	317.9	45.7	-1.2	44.2	15 1
1355	5.2	310.9	2.9	309.4	45.6	-1.4	44.3	15 53
525	4.2	317.7	3.0	316.3	45.8	-1.2	44.3	16 11
545	4.0	318.9	3.1	317.5	45.7	-1.2	44.2	16 35
1394	5.4	311.1	2.9	309.6	45.7	-1.4	44.4	17 12
647	4.6	320.9	3.1	319.0	45.9	-1.2	44.2	19 15
1482	4.1	311.6	2.9	310.1	45.7	-1.4	44.4	20 45
702	5.1	311.7	2.9	310.2	45.6	-1.4	44.3	20 53
1500	5.4	312.2	2.9	310.8	45.7	-1.4	44.4	21 21
737	5.0	314.7	3.0	313.3	45.7	-1.3	44.3	21 39
1543	4.6	320.3	3.1	319.0	45.7	-1.2	44.2	22 36
808	3.1	318.6	3.1	317.3	45.7	-1.2	44.2	23 24
1569	4.8	312.3	2.9	310.8	45.7	-1.4	44.4	23 46

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-44	A	LAT-42	LAT-44	B	LAT-42	HRS MIN
739	5.5	228.0	3.5	226.6	44.3	-1.3	45.7	0 26
764	2.1	227.5	3.5	226.0	44.3	-1.3	45.6	1 4
785	3.7	224.9	3.4	223.5	44.3	-1.3	45.8	1 37
824	4.6	230.3	3.5	228.5	44.4	-1.4	45.7	2 34
925	4.7	227.4	3.4	225.9	44.3	-1.3	45.7	2 42
941	2.9	222.3	3.4	220.9	44.2	-1.2	45.7	3 3
877	4.1	225.2	3.4	223.8	44.3	-1.3	45.7	3 59
23	4.5	226.3	3.4	224.9	44.3	-1.3	45.7	5 24
54	4.6	226.7	3.4	225.2	44.3	-1.3	45.7	6 18
84	5.5	222.2	3.3	220.9	44.3	-1.2	45.8	7 11
113	5.2	223.0	3.4	221.7	44.3	-1.2	45.8	7 49
171	3.5	230.0	3.5	228.5	44.4	-1.4	45.7	9 11
189	4.8	226.4	3.4	225.0	44.3	-1.3	45.7	9 47
1156	4.4	228.4	3.5	226.9	44.4	-1.4	45.7	10 29
235	4.8	230.2	3.5	228.7	44.4	-1.4	45.7	10 47
272	5.3	227.6	3.5	226.1	44.3	-1.3	45.7	11 44
315	1.7	223.6	3.4	222.2	44.3	-1.2	45.7	13 7
1233	5.3	224.0	3.4	222.6	44.3	-1.3	45.8	13 41
336	4.0	221.9	3.3	220.6	44.2	-1.2	45.7	13 41
353	2.6	230.3	3.5	228.7	44.3	-1.4	45.6	13 58
351	2.3	224.0	3.4	222.6	44.3	-1.3	45.7	14 1
361	3.0	227.3	3.4	225.8	44.3	-1.3	45.7	14 11
393	4.1	224.7	3.4	223.4	44.3	-1.3	45.8	15 11
402	4.4	229.4	3.5	227.9	44.4	-1.4	45.7	15 17
1289	4.0	224.4	3.4	223.0	44.3	-1.3	45.8	15 52
443	4.2	221.2	3.3	219.9	44.3	-1.2	45.8	16 33
455	3.1	224.7	3.4	223.4	44.3	-1.3	45.8	16 58
468	1.6	227.2	3.4	225.7	44.4	-1.3	45.7	17 11
481	1.5	223.4	3.4	222.0	44.3	-1.2	45.8	17 32
1347	4.6	221.5	3.3	220.2	44.2	-1.2	45.7	18 8
519	6.9	227.4	3.3	221.0	44.3	-1.2	45.8	18 49
529	4.4	228.2	3.5	226.7	44.3	-1.3	45.6	18 58
538	0.3	221.7	3.3	220.4	44.2	-1.2	45.7	19 25
561	4.2	224.6	3.4	223.2	44.3	-1.3	45.8	20 0
1435	3.7	224.2	3.4	222.9	44.3	-1.3	45.7	21 32
631	3.1	228.7	3.5	227.2	44.4	-1.4	45.7	21 36
645	2.8	220.3	3.5	227.8	44.4	-1.4	45.7	22 2
648	3.8	221.8	3.3	220.5	44.2	-1.2	45.8	22 16
1474	5.5	228.6	3.5	227.1	44.3	-1.4	45.6	22 54

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-44	A	LAT-42	LAT-44	B	LAT-42	HRS MIN
1097	4.8	39.8	3.1	41.1	45.7	1.2	44.2	1 40
154	4.1	44.7	3.0	46.2	45.7	1.3	44.3	2 9
190	4.3	49.7	2.9	51.3	45.7	1.4	44.4	2 54
194	3.3	48.3	2.9	49.8	45.7	1.4	44.4	3 3
195	3.7	44.6	3.0	46.1	45.7	1.3	44.2	3 15
188	2.9	39.9	3.1	41.2	45.8	1.2	44.2	3 17
209	2.9	42.1	3.0	43.5	45.7	1.2	44.2	3 39
1170	5.1	47.1	2.9	48.6	45.6	1.4	44.3	4 11
354	2.2	49.1	2.9	50.7	45.6	1.4	44.4	7 14
1263	5.4	47.5	2.9	49.0	45.6	1.4	44.3	8 8
475	4.8	47.3	2.9	48.8	45.6	1.4	44.3	10 30
490	4.5	40.7	3.1	42.0	45.7	1.2	44.2	11 17
1355	5.2	49.1	2.9	50.7	45.6	1.4	44.3	11 28
525	4.2	42.3	3.0	43.6	45.8	1.2	44.3	12 19
1394	5.4	48.8	2.9	50.3	45.7	1.4	44.4	12 48
545	4.0	41.1	3.1	42.5	45.7	1.2	44.2	12 49
647	4.6	39.8	3.1	41.1	45.8	1.2	44.2	15 36
1482	4.1	48.5	2.9	50.0	45.7	1.4	44.4	16 23
702	5.1	48.6	2.9	50.1	45.7	1.4	44.4	16 31
1500	4.3	47.5	2.9	49.0	45.6	1.4	44.3	17 3
737	5.0	45.4	3.0	46.9	45.8	1.3	44.4	17 32
1543	4.6	39.8	3.1	41.1	45.8	1.2	44.2	18 57
1569	4.8	47.5	2.9	49.0	45.6	1.4	44.3	19 28
808	3.1	41.4	3.1	42.7	45.7	1.2	44.2	19 37
840	4.3	47.5	2.9	49.0	45.7	1.4	44.4	20 7
864	3.8	47.0	2.9	48.5	45.7	1.4	44.4	20 44
1607	4.4	42.8	3.0	44.2	45.7	1.3	44.3	21 16
1630	4.7	42.7	3.0	44.1	45.7	1.3	44.3	22 4
1092	4.7	42.0	3.0	43.4	45.8	1.2	44.3	22 9
47	3.8	48.5	2.9	50.0	45.7	1.4	44.4	23 12

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-44	A	LAT-42	LAT-44	B	LAT-42	HRS MIN
189	4.9	133.5	0.4	135.0	44.3	1.3	45.7	0 24
1156	4.4	131.6	0.5	133.1	44.4	1.4	45.7	1 10
235	4.8	129.8	0.5	131.3	44.3	1.4	45.6	1 33
272	5.3	132.4	0.5	133.9	44.3	1.3	45.7	2 24
315	1.7	136.4	0.4	137.8	44.3	1.2	45.8	3 37
336	4.0	138.1	0.3	139.4	44.3	1.2	45.8	4 8
1233	5.3	136.0	0.4	137.4	44.3	1.3	45.8	4 12
351	2.3	136.1	0.4	137.4	44.3	1.3	45.8	4 32
353	2.6	129.7	0.5	131.3	44.3	1.4	45.6	4 45
361	3.0	132.8	0.4	134.2	44.3	1.3	45.7	4 50
393	4.1	135.2	0.4	136.6	44.2	1.3	45.7	5 44
402	4.4	130.6	0.5	132.1	44.4	1.4	45.7	6 0
1289	4.0	135.6	0.4	136.0	44.3	1.3	45.7	6 24
443	4.2	138.8	0.3	140.1	44.3	1.2	45.8	6 58
455	3.1	135.2	0.4	136.6	44.2	1.3	45.7	7 31
468	1.6	132.9	0.4	134.3	44.4	1.3	45.7	7 49
481	1.5	136.6	0.4	138.0	44.2	1.2	45.7	8 2
1347	4.6	138.5	0.3	139.8	44.3	1.2	45.8	8 34
518	0.9	137.6	0.3	139.0	44.3	1.2	45.8	9 16
529	4.4	131.8	0.5	133.3	44.4	1.3	45.7	9 39
538	0.3	138.3	0.3	139.7	44.3	1.2	45.8	9 51
561	4.2	125.4	0.4	136.8	44.3	1.3	45.8	10 32
1435	3.7	135.8	0.4	137.2	44.3	1.3	45.7	12 4
631	3.1	131.3	0.5	132.8	44.4	1.4	45.7	12 18
648	3.8	138.2	0.3	139.5	44.2	1.2	45.7	12 43
645	2.8	130.6	0.5	132.1	44.3	1.4	45.6	12 46
1474	5.5	131.4	0.5	132.9	44.4	1.4	45.7	12 56
739	5.5	132.0	0.5	133.4	44.3	1.3	45.6	15 7
764	2.1	132.5	0.5	134.0	44.3	1.3	45.7	15 44
785	3.7	135.1	0.4	136.5	44.3	1.3	45.7	16 10
824	4.6	134.0	0.5	131.5	44.4	1.4	45.7	17 19
825	4.7	132.7	0.5	134.1	44.4	1.3	45.7	17 21
841	2.9	137.7	0.3	139.1	44.2	1.2	45.7	17 31
877	4.1	134.8	0.4	136.2	44.3	1.3	45.8	18 33
23	4.5	133.7	0.4	135.1	44.3	1.3	45.7	20 1
54	0.6	133.3	0.4	134.8	44.3	1.3	45.7	20 56
84	5.5	137.8	0.3	139.1	44.3	1.2	45.8	21 38
110	5.2	136.9	0.4	138.3	44.2	1.2	45.7	22 18
171	3.5	130.0	0.5	131.5	44.4	1.4	45.7	23 56

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-40	A LAT-38	LAT-40	B LAT-38	HRS	MIN
842	4.9	320.2	3.0	318.9	45.8	-1.3	44.3
1595	5.3	313.1	2.9	311.6	45.6	-1.4	44.3
900	5.1	314.7	2.9	313.3	45.6	-1.4	44.2
1049	5.3	314.4	2.9	312.9	45.7	-1.4	44.3
1080	5.3	314.3	2.9	312.9	45.7	-1.4	44.3
1097	4.8	311.0	2.8	309.5	45.7	-1.5	44.4
1111	5.3	320.1	3.1	318.8	45.7	-1.3	44.2
1120	5.2	314.4	2.9	312.9	45.7	-1.4	44.3
169	4.1	315.4	2.9	314.0	45.6	-1.4	44.2
176	4.2	315.6	2.9	314.1	45.7	-1.4	44.3
180	2.9	311.1	2.8	309.5	45.7	-1.5	44.4
246	5.1	312.0	2.9	310.5	45.7	-1.5	44.4
1186	5.0	313.3	2.9	311.9	45.7	-1.4	44.3
289	5.2	313.7	2.9	312.3	45.6	-1.4	44.3
304	5.1	314.9	2.9	313.4	45.7	-1.4	44.3
316	4.0	314.3	2.9	312.9	45.6	-1.4	44.2
1230	5.2	315.5	2.9	314.0	45.7	-1.4	44.2
1270	5.2	317.2	3.0	315.8	45.7	-1.3	44.3
1292	4.6	314.9	2.9	313.4	45.7	-1.4	44.3
496	4.5	310.3	2.8	308.7	45.7	-1.5	44.4
533	5.0	318.7	3.0	317.3	45.7	-1.3	44.2
585	3.6	315.2	2.9	313.8	45.8	-1.4	44.4
603	3.0	314.7	2.9	313.2	45.7	-1.4	44.3
605	3.3	312.1	2.9	310.6	45.7	-1.5	44.4
1445	5.0	313.3	2.9	311.8	45.7	-1.4	44.3
647	4.6	311.3	2.8	309.8	45.6	-1.5	44.3
688	3.4	316.7	3.0	315.3	45.7	-1.4	44.2
1480	5.4	318.9	3.0	317.6	45.7	-1.3	44.3
1489	4.6	312.0	2.9	310.5	45.6	-1.5	44.3
717	3.2	311.6	2.8	310.1	45.6	-1.5	44.3
1500	5.2	316.8	3.0	315.4	45.7	-1.3	44.2
1533	5.1	316.4	3.0	315.0	45.7	-1.4	44.3
1543	4.6	311.0	2.8	309.5	45.7	-1.5	44.4

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-40	A LAT-38	LAT-40	B LAT-38	HRS	MIN
739	5.5	225.9	0.2	224.4	44.3	-1.4	45.8
764	2.1	225.2	0.2	223.8	44.3	-1.4	45.8
785	3.7	222.0	0.1	221.4	44.3	-1.3	45.8
924	4.6	227.7	0.2	226.2	44.3	-1.4	45.7
925	4.7	225.2	0.2	223.7	44.2	-1.4	45.7
977	4.1	223.0	0.1	221.7	44.3	-1.3	45.8
23	4.5	224.1	0.2	222.7	44.3	-1.3	45.8
54	0.6	224.5	0.2	223.1	44.3	-1.3	45.7
1076	5.3	228.4	0.3	226.9	44.3	-1.4	45.7
171	3.5	227.7	0.2	226.2	44.3	-1.4	45.7
189	4.8	224.2	0.2	222.9	44.2	-1.3	45.7
1156	4.4	226.1	0.2	224.7	44.4	-1.4	45.8
235	4.8	227.0	0.3	226.4	44.2	-1.4	45.7
272	5.3	225.4	0.2	224.1	44.2	-1.4	45.7
315	1.7	221.4	0.1	220.1	44.2	-1.3	45.7
1233	5.3	221.0	0.1	220.5	44.2	-1.3	45.7
351	2.3	221.8	0.1	220.5	44.3	-1.3	45.8
353	2.6	227.9	0.3	226.5	44.4	-1.4	45.7
361	3.0	225.0	0.2	223.6	44.2	-1.4	45.7
375	3.7	228.6	0.3	227.1	44.4	-1.4	45.7
393	4.1	222.6	0.1	221.3	44.3	-1.3	45.8
402	4.4	227.1	0.2	225.7	44.3	-1.4	45.7
1289	4.0	222.3	0.1	221.0	44.3	-1.3	45.8
428	4.3	228.7	0.3	227.2	44.4	-1.4	45.7
455	3.1	227.6	0.1	226.3	44.3	-1.3	45.8
468	1.6	224.9	0.2	223.6	44.3	-1.4	45.7
529	4.4	226.0	0.2	224.5	44.3	-1.4	45.7
561	4.2	222.5	0.1	221.1	44.3	-1.3	45.8
600	5.1	228.4	0.3	227.0	44.4	-1.4	45.7
635	3.7	222.1	0.1	220.7	44.3	-1.3	45.8
631	3.1	226.4	0.2	225.0	44.3	-1.4	45.7
645	2.8	222.9	0.2	221.6	44.3	-1.3	45.8
1474	5.5	233.7	0.2	232.2	44.4	-1.4	45.7
739	5.5	234.2	0.2	232.7	44.3	-1.4	45.7
764	2.1	234.8	0.2	233.3	44.3	-1.4	45.8
785	3.7	237.2	0.1	235.7	44.2	-1.3	45.7
824	4.6	232.3	0.3	230.8	44.4	-1.4	45.7
825	4.7	234.9	0.2	233.4	44.3	-1.4	45.7
877	4.1	237.0	0.1	235.5	44.2	-1.3	45.7
23	4.5	235.9	0.2	234.4	44.3	-1.3	45.8
54	0.6	235.5	0.2	234.0	44.3	-1.3	45.7
1076	5.3	231.6	0.3	230.1	44.4	-1.4	45.7

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-40	A LAT-38	LAT-40	B LAT-38	HRS	MIN
1080	5.3	45.7	2.9	47.2	45.7	1.4	44.3
1097	4.8	49.1	2.8	50.6	45.7	1.5	44.4
1111	5.3	39.9	3.0	41.2	45.7	1.3	44.2
1120	5.2	45.7	2.9	47.2	45.7	1.4	44.3
169	4.1	44.7	2.9	46.2	45.7	1.4	44.3
176	4.2	44.4	2.9	45.9	45.7	1.4	44.3
188	2.9	48.9	2.8	50.4	45.6	1.5	44.3
246	5.0	48.0	2.9	49.5	45.7	1.5	44.3
1186	5.0	46.9	2.9	48.3	45.7	1.4	44.4
289	5.2	46.4	2.9	47.9	45.7	1.4	44.3
304	5.1	45.3	2.9	46.8	45.7	1.4	44.3
316	4.0	45.8	2.9	47.2	45.7	1.4	44.3
1230	5.2	44.7	2.9	46.2	45.8	1.4	44.3
1270	5.2	42.8	3.0	44.1	45.7	1.3	44.3
1292	4.6	45.0	2.9	46.4	45.6	1.4	44.2
490	4.5	49.7	2.8	51.2	45.7	1.5	44.4
533	5.0	41.4	3.0	42.8	45.7	1.3	44.2
585	3.6	44.5	2.9	45.0	45.6	1.4	44.2
603	3.3	47.7	2.9	49.2	45.6	1.5	44.3
605	3.0	45.2	2.9	46.7	45.6	1.4	44.3
1445	5.0	46.7	2.9	48.2	45.7	1.4	44.3
647	4.6	48.7	2.8	50.3	45.6	1.5	44.3
688	3.4	43.5	3.0	44.9	45.7	1.4	44.3
1480	5.4	41.2	3.0	42.5	45.8	1.3	44.3
1489	4.5	49.1	2.9	49.6	45.7	1.5	44.3
717	3.6	48.5	2.8	50.0	45.7	1.5	44.4
1509	5.2	43.2	3.0	44.6	45.7	1.3	44.3
1533	5.1	43.6	3.0	45.0	45.7	1.4	44.3
1543	4.6	48.8	2.8	50.3	45.6	1.5	44.3
1595	5.3	47.0	2.9	48.5	45.7	1.4	44.3
942	4.0	39.6	3.1	40.9	45.7	1.3	44.2
900	5.1	45.3	2.9	46.8	45.7	1.4	44.3
1049	5.3	45.8	2.9	47.2	45.7	1.4	44.3

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-40	A LAT-38	LAT-40	B LAT-38	HRS	MIN
171	3.5	132.3	0.3	133.8	44.4	1.4	45.7
189	4.8	135.8	0.2	137.1	44.3	1.2	45.7
1156	4.4	133.9	0.2	135.3	44.3	1.4	45.8
235	4.8	132.1	0.3	133.6	44.3	1.4	45.7
272	5.3	134.7	0.2	136.1	44.3	1.4	45.8
315	1.7	139.6	0.1	139.9	44.2	1.3	45.8
1233	5.3	138.1	0.1	139.5	44.3	1.3	45.8
351	2.3	138.2	0.1	139.5	44.2	1.3	45.7
353	2.6	132.1	0.3	133.5	44.4	1.4	45.7
361	3.0	135.0	0.2	136.4	44.3	1.4	45.7
375	3.7	131.4	0.3	132.9	44.4	1.4	45.7
393	4.1	137.4	0.1	138.7	44.3	1.3	45.8
402	4.4	132.9	0.2	134.3	44.3	1.4	45.7
1289	4.0	137.7	0.1	139.1	44.2	1.3	45.7
428	4.3	131.3	0.3	132.8	44.4	1.4	45.7
455	3.1	137.4	0.1	138.7	44.3	1.3	45.8
468	1.6	135.1	0.2	136.4	44.3	1.4	45.8
529	4.4	134.0	0.2	135.4	44.3	1.4	45.7
561	4.2	137.5	0.1	138.9	44.3	1.3	45.8
600	5.1	131.6	0.3	133.0	44.3	1.4	45.7
1435	3.7	137.9	0.1	139.3	44.3	1.3	45.8
631	3.1	133.5	0.2	135.0	44.3	1.4	45.7
645	2.8	132.9	0.2	134.4	44.3	1.4	45.7
1474	5.5	133.7	0.2	135.1	44.4	1.4	45.8
739	5.5	134.2	0.2	135.6	44.3	1.4	45.7
764	2.1	134.8	0.2	136.2	44.4	1.4	45.8
785	3.7	137.2	0.1	138.6	44.2	1.3	45.7
824	4.6	132.3	0.3	133.8	44.4	1.4	45.7
825	4.7	134.9	0.2	136.3	44.3	1.4	45.7
877	4.1	137.0	0.1	138.3	44.2	1.3	45.7
23	4.5	135.9	0.2	137.2	44.3	1.3	45.8
54	0.6	135.5	0.2	136.9	44.3	1.3	45.7
1076	5.3	131.6	0.3	133.1	44.4	1.4	45.7

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-38	A LAT-36	LAT-38	B LAT-36	HRS	MIN
842	4.0	315.6	2.9	314.2	45.8	-1.4	44.4
850	4.1	318.8	3.0	317.5	45.8	-1.3	44.3
923	5.1	310.4	2.8	308.9	45.7	-1.5	44.4
1022	4.9	316.2	2.9	314.8	45.8	-1.4	44.4
1049	5.3	310.4	2.8	308.8	45.6	-1.5	44.3
91	4.0	320.1	3.0	318.8	45.8	-1.3	44.3
1080	5.3	310.3	2.8	308.8	45.6	-1.5	44.3
116	5.1	316.4	2.9	315.0	45.7	-1.4	44.2
1101	4.4	320.6	3.0	319.3	45.7	-1.3	44.2
137	5.1	316.4	2.9	315.0	45.7	-1.4	44.3
1111	5.3	315.5	2.9	314.1	45.7	-1.4	44.3
1120	5.2	310.3	2.8	308.8	45.6	-1.5	44.3
169	4.1	311.1	2.8	309.6	45.7	-1.5	44.4
176	4.2	311.6	2.8	310.0	45.6	-1.5	44.3
1147	4.7	318.5	3.0	317.2	45.7	-1.3	44.2
216	2.5	318.7	3.0	317.3	45.8	-1.3	44.3
210	1.8	316.3	2.9	314.9	45.8	-1.4	44.4
1175	5.0	316.4	2.9	315.0	45.7	-1.4	44.3
1187	4.1	318.2	3.0	316.9	45.8	-1.3	44.3
304	5.1	319.8	2.8	309.2	45.6	-1.5	44.3
216	4.0	310.3	2.8	308.9	45.6	-1.5	44.3
1230	5.2	311.2	2.8	309.6	45.7	-1.5	44.4
1250	4.1	316.9	2.9	315.5	45.7	-1.4	44.3
1270	5.2	312.9	2.8	311.4	45.7	-1.5	44.3
1292	4.6	310.8	2.8	309.3	45.7	-1.5	44.4
437	4.5	317.8	3.0	316.4	45.7	-1.4	44.2
460	4.0	318.2	3.0	316.8	45.7	-1.3	44.2
501	3.4	318.1	3.0	316.8	45.8	-1.3	44.3
533	5.0	318.1	2.9	312.6	45.7	-1.5	44.3
585	3.6	311.2	2.8	309.7	45.7	-1.5	44.4
603	3.0	310.6	2.8	309.1	45.6	-1.5	44.4
688	3.4	312.4	2.8	310.9	45.6	-1.5	44.3
1480	5.4	314.3	2.9	312.9	45.8	-1.4	44.4
1509	5.2	312.5	2.8	311.0	45.7	-1.5	44.3
756	3.4	317.1	2.9	315.8	45.9	-1.4	44.3
1533	5.1	312.1	2.9	310.6	45.7	-1.5	44.4
927	3.2	318.5	3.0	317.2	45.7	-1.3	44.2

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-38	A LAT-36	LAT-38	B LAT-36	HRS	MIN
755	4.9	229.5	0.2	228.0	44.3	-1.5	45.6
764	2.1	224.5	0.1	222.6	44.3	-1.4	45.7
785	3.7	221.5	0.0	220.2	44.2	-1.3	45.7
824	4.6	226.4	0.1	225.0	44.3	-1.4	45.7
825	4.7	223.9	0.2	222.5	44.3	-1.4	45.7
868	4.2	229.6	0.2	228.1	44.3	-1.5	45.6
977	4.1	221.9	0.2	220.4	44.2	-1.3	45.7
883	5.5	229.7	0.2	228.1	44.4	-1.5	45.7
901	5.1	229.6	0.2	228.1	44.3	-1.5	45.6
23	4.5	220.0	0.0	221.5	44.3	-1.3	45.8
54	0.6	223.2	0.0	221.8	44.3	-1.3	45.7
1076	5.3	227.1	0.1	225.6	44.3	-1.4	45.6
171	3.5	226.4	0.1	225.0	44.3	-1.4	45.7
189	4.9	223.0	0.0	221.6	44.2	-1.3	45.7
1156	4.4	224.9	0.1	223.5	44.2	-1.4	45.7
235	4.8	226.6	0.1	225.2	44.2	-1.4	45.6
245	0.9	229.9	0.2	228.4	44.4	-1.5	45.7
272	5.3	224.1	0.1	222.7	44.3	-1.4	45.7
303	3.6	229.5	0.2	228.0	44.4	-1.5	45.7
1227	3.7	229.6	0.2	228.1	44.3	-1.5	45.6
353	2.6	226.7	0.1	225.2	44.3	-1.4	45.7
361	3.0	223.8	0.0	222.4	44.3	-1.4	45.8
375	3.7	227.3	0.1	225.9	44.3	-1.4	45.6
402	4.4	225.3	0.1	224.4	44.3	-1.4	45.7
428	4.3	227.4	0.1	226.0	44.3	-1.5	45.6
468	1.6	223.7	0.2	222.3	44.3	-1.4	45.7
504	2.6	228.9	0.2	227.4	44.3	-1.5	45.6
529	4.4	224.7	0.1	223.3	44.3	-1.4	45.7
600	5.1	227.2	0.1	225.7	44.3	-1.4	45.7
632	4.2	229.2	0.2	227.7	44.4	-1.5	45.7
631	3.1	225.2	0.1	223.8	44.3	-1.4	45.7
645	2.8	225.8	0.1	224.4	44.3	-1.4	45.7
1474	5.5	225.1	0.1	223.7	44.2	-1.4	45.7
708	5.0	229.5	0.2	228.0	44.3	-1.5	45.6
729	5.5	224.5	0.1	223.1	44.2	-1.4	45.7

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-38	A LAT-36	LAT-38	B LAT-36	HRS	MIN
1080	5.3	49.7	2.8	51.3	45.7	1.5	44.4
91	4.0	39.9	3.0	41.2	45.8	1.3	44.3
116	5.1	43.7	2.9	45.1	45.7	1.4	44.3
137	5.1	43.6	2.9	45.0	45.7	1.4	44.3
1101	4.4	39.6	3.0	40.9	45.8	1.3	44.3
1111	5.3	44.5	2.9	45.9	45.7	1.4	44.3
1120	5.2	49.8	2.8	51.3	45.7	1.5	44.4
169	4.1	48.8	2.8	50.3	45.6	1.5	44.3
176	4.2	48.4	2.8	50.0	45.6	1.5	44.3
1147	4.7	41.6	3.0	43.0	45.8	1.3	44.3
210	1.8	43.5	2.9	44.9	45.7	1.4	44.3
206	2.5	41.3	3.0	42.7	45.8	1.3	44.3
1175	5.0	43.7	2.9	45.1	45.8	1.4	44.3
1187	4.1	41.7	3.0	43.0	45.8	1.3	44.3
304	5.1	49.3	2.8	50.9	45.7	1.5	44.4
316	4.0	49.8	2.8	51.3	45.6	1.5	44.4
1230	5.2	48.7	2.8	50.3	45.7	1.5	44.4
1250	4.1	43.3	2.9	44.7	45.8	1.4	44.3
1270	5.2	47.0	2.8	48.5	45.7	1.5	44.3
1292	4.6	49.3	2.8	50.8	45.7	1.5	44.4
437	4.5	42.2	3.0	43.6	45.7	1.4	44.2
460	4.0	41.8	3.0	43.1	45.7	1.3	44.2
501	3.4	41.7	3.0	43.0	45.7	1.3	44.2
533	5.0	46.0	2.9	47.4	45.8	1.5	44.4
585	3.6	48.8	2.8	50.3	45.7	1.5	44.4
603	3.0	49.2	2.8	50.8	45.6	1.5	44.3
688	3.4	47.8	2.8	49.3	45.7	1.5	44.4
1480	5.4	45.4	2.9	46.9	45.7	1.4	44.3
1509	5.2	47.5	2.8	49.0	45.7	1.5	44.4
756	3.4	42.7	3.0	44.1	45.7	1.4	44.3
1533	5.1	47.9	2.8	49.4	45.7	1.5	44.4
827	3.2	41.6	3.0	43.0	45.8	1.3	44.3
842	4.0	44.2	2.9	45.6	45.7	1.4	44.2
850	4.1	41.1	3.0	42.4	45.8	1.3	44.3
900	5.1	49.4	2.8	50.9	45.6	1.5	44.3
1022	4.9	43.8	2.9	45.2	45.8	1.4	44.3
1049	5.3	49.8	2.8	51.3	45.7	1.5	44.4

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-38	A LAT-36	LAT-38	B LAT-36	HRS	MIN
171	3.5	133.6	0.1	135.0	44.3	1.4	45.7
189	4.8	137.0	0.0	138.4	44.3	1.3	45.7
1156	4.4	135.1	0.1	136.5	44.2	1.4	45.7
235	4.8	133.4	0.1	134.8	44.4	1.4	45.8
245	0.9	130.1	0.2	131.6	44.4	1.5	45.7
272	5.3	135.9	0.1	137.3	44.3	1.4	45.7
303	3.6	130.5	0.2	132.0	44.3	1.5	45.6
1227	3.7	130.4	0.2	131.9	44.4	1.5	45.7
353	2.6	133.3	0.1	134.8	44.3	1.4	45.7
361	3.0	136.2	0.0	137.6	44.2	1.4	45.7
375	3.7	132.7	0.1	134.1	44.3	1.4	45.7
402	4.4	134.2	0.1	135.6	44.3	1.4	45.7
428	4.3	132.6	0.1	134.0	44.3	1.5	45.7
468	1.6	136.3	0.0	137.7	44.3	1.4	45.7
504	2.6	131.1	0.2	132.6	44.3	1.5	45.7
529	4.4	135.3	0.1	136.7	44.3	1.4	45.7
600	5.1	132.8	0.1	134.3	44.2	1.4	45.6
631	3.1	134.8	0.1	136.2	44.3	1.4	45.7
632	4.2	130.8	0.2	132.3	44.4	1.5	45.7
645	2.8	134.2	0.1	135.6	44.3	1.4	45.7
1474	5.5	134.9	0.1	136.3	44.2	1.4	45.7
708	5.0	130.5	0.2	132.0	44.4	1.5	45.7
739	5.5	135.5	0.1	136.9	44.3	1.4	45.8
755	4.9	130.5	0.2	132.0	44.4	1.5	45.7
764	2.1	136.0	0.1	137.4	44.3	1.4	45.7
785	3.7	138.5	0.0	139.8	44.3	1.3	45.8
824	4.6	133.6	0.1	135.0	44.3	1.4	45.7
825	4.7	136.1	0.0	137.5	44.2	1.4	45.7
868	4.2	130.4	0.2	131.9	44.4	1.5	45.7
877	4.1	138.2	0.0	139.6	44.3	1.3	45.8
883	5.5	130.3	0.2	131.9	44.4	1.5	45.7
901	5.1	130.4	0.2	131.9	44.4	1.5	45.7
923	4.5	137.1	0.0	138.5	44.3	1.3	45.8
940	0.6	136.8	0.0	138.2	44.2	1.3	45.7
1076	5.3	132.9	0.1	134.4	44.3	1.4	45.6

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-32	A LAT-30	LAT-32	B LAT-30	HRS	MIN
1585	4.6	310.5	2.7	308.9	45.6	-1.6	44.3
1602	4.6	315.7	2.8	314.3	45.7	-1.5	44.3
878	3.9	314.5	2.8	313.1	45.7	-1.5	44.3
892	4.3	320.1	2.9	318.8	45.8	-1.4	44.2
884	4.9	310.0	2.6	308.4	45.7	-1.7	44.4
1620	4.6	311.3	2.7	308.8	45.6	-1.6	44.3
1034	5.3	315.3	2.8	313.8	45.7	-1.5	44.3
56	4.7	319.8	2.9	318.5	45.7	-1.4	44.2
65	4.8	314.3	2.8	312.8	45.7	-1.6	44.3
1072	5.0	320.0	2.9	318.7	45.8	-1.4	44.2
107	2.8	316.4	2.8	315.0	45.7	-1.5	44.3
1093	5.0	314.7	2.8	313.3	45.8	-1.5	44.4
1123	5.5	310.6	2.7	309.0	45.6	-1.6	44.3
179	3.8	320.2	2.9	318.9	45.8	-1.4	44.3
180	3.9	312.8	2.7	311.3	45.7	-1.6	44.3
244	4.5	317.8	2.9	316.5	45.7	-1.5	44.3
258	4.7	313.0	2.7	311.5	45.6	-1.6	44.3
291	0.5	319.4	2.9	318.1	45.8	-1.4	44.3
1205	5.1	311.6	2.7	310.1	45.6	-1.6	44.3
1223	4.2	320.7	2.9	319.5	45.7	-1.4	44.2
1224	4.5	315.2	2.8	312.7	45.6	-1.5	44.2
347	3.8	312.8	2.7	311.3	45.7	-1.6	44.3
1249	4.8	318.2	2.9	316.8	45.7	-1.4	44.3
1284	5.1	315.7	2.8	314.3	45.8	-1.5	44.4
1297	5.2	314.0	2.8	312.6	45.7	-1.6	44.3
445	3.8	311.6	2.7	310.1	45.7	-1.6	44.4
1317	5.1	315.1	2.8	313.7	45.7	-1.5	44.3
484	3.7	315.2	2.8	313.8	45.7	-1.5	44.3
1344	5.0	320.3	2.9	319.0	45.7	-1.4	44.2
1351	4.9	315.9	2.8	314.5	45.7	-1.5	44.3
516	4.3	311.2	2.7	309.6	45.7	-1.6	44.4
547	3.8	311.9	2.7	310.4	45.7	-1.6	44.3
562	5.4	318.9	2.9	317.5	45.7	-1.4	44.2
588	3.8	317.5	2.8	316.2	45.8	-1.5	44.3
1459	4.4	316.9	2.8	315.5	45.7	-1.5	44.2
665	2.9	317.8	2.9	316.4	45.7	-1.5	44.3
668	3.7	313.5	2.7	312.1	45.7	-1.6	44.3
677	4.0	313.9	2.8	312.5	45.7	-1.6	44.3
1476	4.9	314.9	2.8	313.5	45.7	-1.5	44.3
709	4.5	316.8	2.8	315.4	45.7	-1.5	44.3
730	3.4	314.3	2.8	312.8	45.7	-1.6	44.3
1531	5.4	319.4	2.9	318.1	45.8	-1.4	44.3
809	4.1	319.2	2.9	317.9	45.8	-1.4	44.3
1574	5.5	313.2	2.7	311.8	45.7	-1.6	44.3

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-32	A LAT-30	LAT-32	B LAT-30	HRS	MIN
776	4.7	226.4	-0.2	224.9	44.3	-1.5	45.7
824	4.6	221.9	-0.3	220.6	44.3	-1.4	45.8
860	3.7	227.2	-0.2	225.7	44.2	-1.6	45.6
868	4.2	225.1	-0.2	223.7	44.3	-1.5	45.7
883	5.5	225.2	-0.2	223.8	44.3	-1.5	45.8
901	5.1	225.1	-0.2	223.7	44.3	-1.5	45.7
68	3.7	226.9	-0.2	225.3	44.3	-1.5	45.7
82	3.8	226.9	-0.2	225.5	44.3	-1.5	45.7
1176	5.3	222.6	-0.3	221.2	44.3	-1.4	45.8
157	4.4	227.0	-0.2	225.6	44.4	-1.5	45.8
171	3.5	221.9	-0.3	220.6	44.3	-1.4	45.8
187	4.9	229.8	-0.1	228.3	44.3	-1.6	45.6
199	5.5	229.3	-0.2	227.8	44.3	-1.6	45.6
1159	5.0	226.2	-0.2	224.8	44.3	-1.5	45.7
235	4.8	222.1	-0.3	220.8	44.2	-1.4	45.7
245	0.9	225.4	-0.2	224.0	44.3	-1.5	45.7
263	2.8	228.4	-0.2	226.9	44.3	-1.6	45.7
1198	4.9	225.7	-0.2	224.3	44.4	-1.5	45.8
303	3.6	225.0	-0.2	223.6	44.2	-1.5	45.7
1227	3.7	225.1	-0.2	223.7	44.3	-1.5	45.7
353	2.6	222.1	-0.3	220.8	44.3	-1.4	45.8
375	3.7	222.8	-0.3	221.5	44.3	-1.4	45.8
428	4.3	222.9	-0.3	221.6	44.3	-1.4	45.8
452	2.9	228.4	-0.2	226.9	44.4	-1.6	45.7
464	4.2	229.1	-0.1	227.6	44.4	-1.6	45.7
489	4.4	229.5	-0.1	228.0	44.4	-1.6	45.7
504	2.6	224.4	-0.3	223.0	44.2	-1.5	45.7
546	5.2	225.9	-0.2	224.5	44.3	-1.5	45.7
558	3.5	226.3	-0.2	224.9	44.4	-1.5	45.8
1411	5.5	225.9	-0.2	224.5	44.3	-1.5	45.7
600	5.1	222.7	-0.3	221.3	44.3	-1.4	45.8
604	4.1	229.1	-0.1	227.6	44.3	-1.6	45.7
632	4.2	224.7	-0.3	223.3	44.3	-1.5	45.7
651	3.0	229.4	-0.1	227.9	44.3	-1.6	45.7
662	5.3	226.6	-0.2	225.2	44.2	-1.5	45.6
1471	3.9	229.1	-0.1	227.6	44.4	-1.6	45.7
708	5.0	225.0	-0.2	223.6	44.3	-1.5	45.7
755	4.9	225.0	-0.2	223.6	44.3	-1.5	45.7

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-32	A LAT-30	LAT-32	B LAT-30	HRS	MIN
1072	5.0	39.9	2.9	41.2	45.7	1.4	44.2
107	2.8	43.5	2.8	44.9	45.7	1.5	44.2
1093	5.0	45.2	2.8	46.6	45.7	1.5	44.3
1123	5.5	49.4	2.7	51.0	45.6	1.6	44.3
180	3.9	47.3	2.7	48.8	45.7	1.6	44.4
179	3.8	39.9	2.9	41.2	45.8	1.4	44.3
244	4.5	42.3	2.9	43.6	45.8	1.5	44.3
258	4.7	47.2	2.7	48.7	45.7	1.6	44.4
1205	5.1	48.5	2.7	50.0	45.7	1.6	44.4
291	0.5	40.5	2.9	41.8	45.7	1.4	44.2
1224	4.5	44.9	2.8	46.4	45.7	1.5	44.3
1223	4.2	39.3	2.9	40.6	45.8	1.4	44.2
347	3.8	47.1	2.7	48.6	45.6	1.6	44.3
1249	4.8	41.8	2.9	43.1	45.7	1.4	44.2
1284	5.1	44.3	2.8	45.8	45.8	1.5	44.4
1297	5.2	45.9	2.8	47.4	45.7	1.6	44.3
445	3.8	48.4	2.7	50.0	45.7	1.6	44.4
1317	5.1	44.8	2.8	46.3	45.7	1.5	44.3
484	3.7	44.8	2.8	46.3	45.8	1.5	44.4
1344	5.0	39.8	2.9	41.0	45.7	1.4	44.2
1351	4.9	44.2	2.8	45.6	45.7	1.5	44.3
516	4.3	48.9	2.7	50.4	45.7	1.6	44.4
547	3.8	48.2	2.7	49.7	45.7	1.6	44.4
562	5.4	41.2	2.9	42.6	45.8	1.4	44.3
588	3.8	42.4	2.9	43.7	45.7	1.5	44.3
1459	4.4	43.1	2.8	44.5	45.7	1.5	44.2
668	3.7	46.4	2.7	47.9	45.6	1.6	44.3
665	2.9	42.2	2.9	43.6	45.7	1.5	44.3
677	4.0	46.2	2.7	47.6	45.8	1.6	44.4
1476	4.9	45.0	2.8	46.5	45.7	1.5	44.3
709	4.5	43.0	2.8	44.4	45.7	1.5	44.2
730	3.4	45.7	2.8	47.2	45.7	1.6	44.3
1531	5.4	40.4	2.9	41.8	45.7	1.4	44.2
800	4.1	40.7	2.9	42.0	45.7	1.4	44.2
1574	5.5	46.9	2.7	48.4	45.7	1.6	44.4
1585	4.6	49.7	2.6	51.2	45.7	1.7	44.4
1602	4.6	44.2	2.8	45.6	45.7	1.5	44.2
878	3.9	45.5	2.8	47.0	45.7	1.5	44.3
884	4.9	50.0	2.6	51.5	45.7	1.7	44.4
1620	4.6	48.7	2.7	50.3	45.6	1.6	44.3
892	4.3	39.9	2.9	41.2	45.7	1.4	44.2
1034	5.3	44.6	2.8	46.0	45.6	1.5	44.2
65	4.8	45.7	2.8	47.2	45.7	1.6	44.3
56	4.7	40.1	2.9	41.4	45.7	1.4	44.2

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T			
		LAT-32	A LAT-30	LAT-32	B LAT-30	HRS	MIN		
157	4.4	133.0	-0.2	134.4	44.4	1.5	45.8	0	34
171	3.5	138.1	-0.3	139.4	44.3	1.4	45.8	0	55
187	4.9	130.2	-0.1	131.7	44.3	1.6	45.6	1	23
199	5.5	131.7	-0.2	133.1	44.4	1.6	45.7	1	37
1159	5.0	133.8	-0.2	135.2	44.3	1.5	45.7	2	10
235	4.8	137.9	-0.3	139.3	44.2	1.4	45.7	2	32
245	0.9	134.6	-0.2	136.0	44.3	1.5	45.7	2	43
263	2.8	131.6	-0.2	133.1	44.3	1.6	45.7	3	8
1198	4.9	134.3	-0.2	135.8	44.3	1.5	45.7	3	59
303	3.6	135.0	-0.2	136.4	44.3	1.5	45.7	4	16
1227	3.7	134.9	-0.2	136.3	44.2	1.5	45.7	5	0
353	2.6	137.9	-0.3	139.2	44.3	1.4	45.8	5	44
375	3.7	137.2	-0.3	138.5	44.3	1.4	45.8	6	17
428	4.3	137.1	-0.3	138.4	44.3	1.4	45.8	7	44
452	2.9	131.6	-0.2	133.1	44.3	1.6	45.6	8	26
464	4.2	130.9	-0.1	132.4	44.4	1.6	45.7	8	45
489	4.4	130.5	-0.1	132.0	44.3	1.6	45.6	9	24
504	2.6	135.6	-0.3	137.0	44.3	1.5	45.7	9	59
546	5.2	134.1	-0.2	135.5	44.3	1.5	45.7	11	5
558	3.5	133.7	-0.2	135.1	44.3	1.5	45.7	11	30
1411	5.5	134.1	-0.2	135.5	44.3	1.5	45.7	11	57
600	5.1	137.4	-0.3	138.7	44.3	1.4	45.8	12	33
604	4.1	130.9	-0.1	132.4	44.3	1.6	45.6	12	37
632	4.2	135.3	-0.3	136.7	44.3	1.5	45.7	13	18
651	3.0	130.6	-0.1	132.1	44.4	1.6	45.7	13	44
662	5.3	133.4	-0.2	134.8	44.3	1.5	45.7	14	2
1471	3.9	130.9	-0.1	132.4	44.4	1.6	45.7	14	23
708	5.0	135.0	-0.2	136.4	44.3	1.5	45.7	15	17
755	4.9	135.0	-0.2	136.4	44.3	1.5	45.7	16	26
776	4.7	133.6	-0.2	135.1	44.3	1.5	45.7	17	2
824	4.6	138.1	-0.3	139.4	44.3	1.4	45.8	18	16
860	3.7	132.8	-0.2	134.3	44.4	1.6	45.7	19	6
868	4.2	134.9	-0.2	136.3	44.2	1.5	45.7	19	26
883	5.5	134.8	-0.2	136.2	44.3	1.5	45.8	19	44
901	5.1	134.9	-0.2	136.3	44.2	1.5	45.7	20	18
68	3.7	133.2	-0.2	134.7	44.3	1.5	45.7	22	14
82	3.8	133.1	-0.2	134.5	44.3	1.5	45.7	22	33
1076	5.3	137.4	-0.3	138.8	44.3	1.4	45.8	23	

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-30	A LAT-28	LAT-30	B LAT-28	HRS	MIN	
834	3.7	317.3	2.8	315.9	45.7 -1.5	44.2	0	6
1614	4.5	317.7	2.8	316.3	45.7 -1.5	44.3	1	23
892	4.3	315.9	2.8	314.5	45.7 -1.5	44.3	1	39
56	4.7	315.7	2.8	314.2	45.7 -1.5	44.3	3	41
1072	5.0	315.9	2.8	314.5	45.7 -1.5	44.3	4	35
107	2.8	312.5	2.7	311.0	45.7 -1.6	44.4	5	9
1104	5.4	317.1	2.8	315.7	45.7 -1.5	44.2	5	42
151	3.9	316.9	2.8	315.5	45.7 -1.5	44.3	6	0
179	3.8	316.0	2.8	314.6	45.7 -1.5	44.3	6	50
201	1.7	317.7	2.8	316.4	45.8 -1.5	44.3	7	20
244	4.5	314.0	2.7	312.5	45.6 -1.6	44.3	8	27
291	0.5	315.3	2.7	313.8	45.8 -1.6	44.4	9	40
1223	4.2	316.6	2.8	315.2	45.7 -1.5	44.2	10	35
334	3.3	317.0	2.8	315.6	45.8 -1.5	44.3	10	52
1249	4.8	314.3	2.7	312.8	45.6 -1.6	44.3	11	41
427	4.1	317.3	2.8	315.9	45.7 -1.5	44.3	13	17
1344	5.0	316.2	2.8	314.7	45.7 -1.5	44.2	15	16
1375	5.1	316.9	2.8	315.5	45.7 -1.5	44.2	16	21
562	5.4	314.7	2.7	313.3	45.7 -1.6	44.3	17	17
582	2.8	318.2	2.8	316.9	45.7 -1.5	44.2	17	38
588	3.8	313.7	2.7	312.2	45.7 -1.6	44.4	17	55
1459	4.4	313.0	2.7	311.5	45.6 -1.6	44.3	19	32
665	2.9	313.9	2.7	312.4	45.6 -1.6	44.3	19	47
709	4.5	312.9	2.7	311.4	45.7 -1.6	44.4	21	2
749	3.9	317.8	2.8	316.5	45.7 -1.5	44.3	21	50
1531	5.4	315.2	2.7	313.8	45.8 -1.6	44.4	22	24
800	4.1	315.0	2.7	313.6	45.7 -1.6	44.4	23	17

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-30	A LAT-28	LAT-30	B LAT-28	HRS	MIN	
776	4.7	224.7	-0.4	223.3	44.3 -1.5	45.7	0	14
860	3.7	225.5	-0.3	224.1	44.2 -1.5	45.6	2	19
868	4.2	223.4	-0.4	222.0	44.2 -1.5	45.7	2	30
883	5.5	223.5	-0.4	222.1	44.3 -1.5	45.7	2	56
901	5.1	223.4	-0.4	222.0	44.2 -1.5	45.7	3	28
15	4.9	229.1	-0.2	227.6	44.4 -1.6	45.7	4	5
1044	4.0	228.7	-0.3	227.2	44.3 -1.6	45.6	5	4
68	3.7	225.1	-0.3	223.7	44.3 -1.5	45.7	5	27
82	3.8	225.2	-0.3	223.8	44.3 -1.5	45.8	5	48
157	4.4	225.3	-0.3	223.9	44.2 -1.5	45.6	7	47
187	4.9	228.1	-0.3	226.7	44.3 -1.6	45.7	8	38
199	5.5	226.7	-0.3	225.2	44.4 -1.6	45.7	8	52
1159	5.0	224.5	-0.4	223.1	44.3 -1.5	45.8	9	22
245	0.9	223.7	-0.4	222.3	44.2 -1.5	45.7	9	54
263	2.8	226.7	-0.3	225.3	44.3 -1.6	45.7	10	22
1198	4.9	224.0	-0.4	222.6	44.3 -1.5	45.7	11	6
303	3.6	223.3	-0.4	222.0	44.3 -1.5	45.8	11	27
1227	3.7	223.4	-0.4	222.1	44.2 -1.5	45.7	12	10
452	2.9	226.7	-0.3	225.2	44.3 -1.6	45.7	15	40
464	4.2	227.4	-0.3	225.9	44.3 -1.6	45.7	16	0
489	4.4	227.8	-0.3	226.4	44.3 -1.6	45.6	16	39
504	2.6	227.7	-0.4	226.3	44.2 -1.5	45.7	17	9
546	5.2	224.2	-0.4	222.9	44.3 -1.5	45.8	18	17
558	3.5	224.6	-0.4	223.2	44.2 -1.5	45.7	18	42
1398	4.1	229.5	-0.2	228.0	44.4 -1.6	45.7	18	45
1411	5.5	224.2	-0.4	222.8	44.2 -1.5	45.7	19	8
604	4.1	227.4	-0.3	226.0	44.4 -1.6	45.8	19	52
632	4.2	223.0	-0.4	221.7	44.3 -1.5	45.7	20	28
651	3.0	227.8	-0.3	226.3	44.4 -1.6	45.7	21	4
662	5.3	224.9	-0.4	223.5	44.3 -1.5	45.7	21	14
1471	3.9	227.4	-0.3	226.0	44.3 -1.6	45.6	21	38
768	5.0	223.3	-0.4	221.9	44.2 -1.5	45.7	22	27
755	4.9	223.3	-0.4	221.9	44.2 -1.5	45.7	23	36

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-30	A LAT-28	LAT-30	B LAT-28	HRS	MIN	
1072	5.0	44.0	2.8	45.4	45.7	1.5	44.2	0 35
107	2.8	47.3	2.7	48.8	45.6	1.6	44.3	0 54
1104	5.4	43.0	2.8	44.4	45.7	1.5	44.3	1 47
151	3.9	43.2	2.8	44.6	45.7	1.5	44.3	2 4
179	3.8	44.1	2.8	45.5	45.8	1.5	44.3	2 50
201	1.7	42.3	2.8	43.6	45.8	1.5	44.3	3 28
244	4.5	46.1	2.7	47.6	45.7	1.6	44.3	4 18
291	0.5	44.6	2.7	46.0	45.7	1.6	44.3	5 37
1223	4.2	43.5	2.8	44.8	45.7	1.5	44.3	6 38
334	3.3	42.9	2.8	44.3	45.7	1.5	44.3	6 57
1249	4.8	45.9	2.7	47.4	45.8	1.6	44.4	7 33
427	4.1	42.7	2.8	44.1	45.8	1.5	44.3	9 23
1344	5.0	43.9	2.8	45.3	45.7	1.5	44.3	11 17
1375	5.1	43.2	2.8	44.6	45.7	1.5	44.3	12 25
562	5.4	45.1	2.7	46.5	45.6	1.6	44.2	13 12
588	3.8	46.2	2.7	47.7	45.7	1.6	44.3	13 45
582	2.8	41.9	2.8	43.3	45.8	1.5	44.3	13 48
1459	4.4	47.0	2.7	48.5	45.6	1.6	44.3	15 19
665	2.9	46.1	2.7	47.6	45.6	1.6	44.3	15 36
709	4.5	46.9	2.7	48.4	45.6	1.6	44.3	16 49
749	3.9	42.1	2.8	43.4	45.7	1.5	44.2	17 59
1531	5.4	44.6	2.8	46.0	45.7	1.6	44.3	18 21
800	4.1	44.9	2.7	46.3	45.7	1.6	44.3	19 13
834	3.7	42.8	2.8	44.2	45.7	1.5	44.3	20 12
1614	4.5	42.3	2.8	43.7	45.7	1.5	44.2	21 31
892	4.3	44.0	2.8	45.4	45.7	1.5	44.3	21 39
56	4.7	44.3	2.8	45.7	45.7	1.5	44.2	23 40

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-30	A LAT-28	LAT-30	B LAT-28	HRS	MIN	
157	4.4	134.7	-0.3	136.1	44.2	1.5	45.6	0 44
187	4.9	131.9	-0.3	133.3	44.3	1.6	45.7	1 31
199	5.5	133.3	-0.3	134.8	44.3	1.6	45.7	1 46
1159	5.0	135.5	-0.4	136.9	44.3	1.5	45.7	2 19
245	0.9	136.3	-0.4	137.7	44.2	1.5	45.7	2 53
263	2.8	133.3	-0.3	134.7	44.2	1.6	45.6	3 17
1198	4.9	136.0	-0.4	137.4	44.3	1.5	45.8	4 4
303	3.6	136.7	-0.4	138.0	44.3	1.5	45.7	4 26
1227	3.7	136.6	-0.4	137.9	44.3	1.5	45.8	5 9
452	2.9	133.3	-0.3	134.7	44.4	1.6	45.8	8 34
464	4.2	132.6	-0.3	134.1	44.3	1.6	45.6	8 54
489	4.4	132.1	-0.3	133.6	44.4	1.6	45.7	9 32
504	2.6	137.3	-0.4	138.7	44.2	1.5	45.7	10 9
546	5.2	135.8	-0.4	137.1	44.4	1.5	45.8	11 14
1398	4.1	130.5	-0.2	132.0	44.4	1.6	45.7	11 36
558	3.5	135.4	-0.4	136.7	44.3	1.5	45.8	11 39
1411	5.5	135.8	-0.4	137.2	44.3	1.5	45.8	12 6
604	4.1	132.6	-0.3	134.0	44.3	1.6	45.7	12 45
632	4.2	137.0	-0.4	138.3	44.2	1.5	45.7	13 28
651	3.0	132.2	-0.3	133.7	44.3	1.6	45.7	13 57
662	5.3	135.1	-0.4	136.5	44.3	1.5	45.7	14 11
1471	3.9	132.6	-0.3	134.0	44.3	1.6	45.7	14 32
708	5.0	136.8	-0.4	138.1	44.2	1.5	45.7	15 27
755	4.9	136.7	-0.4	138.1	44.2	1.5	45.7	16 36
776	4.7	135.3	-0.4	136.7	44.3	1.5	45.7	17 11
860	3.7	134.5	-0.3	135.9	44.3	1.5	45.8	19 15
868	4.2	136.6	-0.4	137.9	44.3	1.5	45.8	19 29
883	5.5	136.5	-0.4	137.9	44.3	1.5	45.7	19 55
901	5.1	136.6	-0.4	137.9	44.3	1.5	45.8	20 27
15	4.9	130.9	-0.2	132.4	44.4	1.6	45.7	20 56
1044	4.0	131.2	-0.2	132.7	44.4	1.6	45.8	21 56
68	3.7	134.9	-0.3	136.3	44.4	1.5	45.8	22 23
82	3.8	134.8	-0.3	136.2	44.3	1.5	45.7	22 44

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26 B	LAT-28 A	LAT-26 B	HRS	MIN
834	3.7	313.5	2.6	312.0	45.6	-1.6	44.3
1614	4.5	313.8	2.7	312.4	45.7	-1.6	44.3
902	4.0	314.9	2.7	313.5	45.7	-1.6	44.3
28	4.6	316.4	2.7	315.0	45.7	-1.6	44.3
36	4.5	317.0	2.7	315.7	45.8	-1.5	44.3
85	4.3	318.4	2.8	317.1	45.8	-1.5	44.3
1104	5.4	313.2	2.6	311.8	45.7	-1.6	44.3
151	3.9	313.0	2.6	311.6	45.7	-1.6	44.4
1134	3.3	315.2	2.7	313.7	45.7	-1.6	44.3
201	1.7	313.9	2.7	312.5	45.7	-1.6	44.3
224	0.6	316.2	2.7	314.8	45.7	-1.6	44.3
1174	4.5	316.1	2.7	314.7	45.7	-1.6	44.3
285	3.1	318.4	2.8	317.0	45.7	-1.5	44.3
1223	4.2	312.8	2.6	311.3	45.7	-1.7	44.3
334	3.3	313.2	2.6	311.7	45.7	-1.6	44.4
378	4.9	318.0	2.8	316.6	45.7	-1.5	44.2
418	4.7	316.2	2.7	314.8	45.8	-1.6	44.4
427	4.1	313.5	2.6	312.0	45.7	-1.6	44.3
1322	4.2	314.7	2.7	313.2	45.6	-1.6	44.3
1311	4.6	314.8	2.7	313.3	45.7	-1.6	44.3
1328	5.2	317.2	2.8	315.9	45.7	-1.5	44.2
1375	5.1	313.0	2.6	311.6	45.7	-1.6	44.3
582	2.8	314.1	2.7	312.7	45.8	-1.6	44.4
1511	4.7	316.2	2.7	314.8	45.7	-1.6	44.3
749	3.9	314.0	2.7	312.5	45.7	-1.6	44.3

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26 B	LAT-28 A	LAT-26 B	HRS	MIN
769	3.2	229.6	-0.3	228.1	44.3	-1.7	45.6
776	4.7	222.8	-0.5	221.5	44.2	-1.5	45.7
860	3.7	223.7	-0.5	222.3	44.3	-1.5	45.7
15	4.9	227.4	-0.4	225.9	44.3	-1.6	45.7
1044	4.0	227.0	-0.4	225.5	44.3	-1.6	45.7
68	3.7	223.3	-0.5	221.9	44.2	-1.5	45.7
82	3.8	223.4	-0.5	222.1	44.2	-1.5	45.7
86	4.4	229.0	-0.3	227.5	44.3	-1.7	45.6
157	4.4	223.5	-0.5	222.2	44.3	-1.5	45.7
187	4.9	226.3	-0.4	224.9	44.2	-1.6	45.6
199	5.5	224.9	-0.5	223.5	44.3	-1.6	45.8
1159	5.0	222.7	-0.5	221.3	44.3	-1.5	45.7
245	0.9	221.8	-0.5	220.5	44.2	-1.5	45.7
263	2.8	224.9	-0.5	223.5	44.2	-1.6	45.7
1198	4.9	222.1	-0.5	220.8	44.2	-1.5	45.7
309	1.9	229.7	-0.3	228.2	44.3	-1.7	45.6
435	5.4	229.4	-0.3	227.9	44.3	-1.7	45.7
452	2.9	224.9	-0.5	223.5	44.3	-1.6	45.7
464	4.2	225.6	-0.4	224.2	44.2	-1.6	45.7
489	4.4	226.1	-0.4	224.7	44.4	-1.6	45.8
512	3.1	229.9	-0.3	228.4	44.4	-1.7	45.7
546	5.2	222.4	-0.5	221.1	44.3	-1.5	45.8
541	2.9	229.7	-0.3	228.2	44.4	-1.7	45.7
558	3.5	222.8	-0.5	221.5	44.3	-1.5	45.8
1398	4.1	227.7	-0.4	226.3	44.4	-1.6	45.8
1411	5.5	222.4	-0.5	221.1	44.3	-1.5	45.8
634	4.1	225.6	-0.4	224.2	44.3	-1.6	45.7
651	3.0	226.0	-0.4	224.6	44.3	-1.6	45.7
662	5.3	223.1	-0.5	221.8	44.3	-1.5	45.8
1471	3.9	225.7	-0.4	224.3	44.4	-1.6	45.8
735	5.0	228.5	-0.4	227.0	44.3	-1.6	45.6

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26 B	LAT-28 A	LAT-26 B	HRS	MIN
85	4.3	41.6	2.8	43.0	45.8	1.5	44.3
1104	5.4	46.8	2.6	48.3	45.7	1.6	44.3
151	3.9	47.0	2.6	48.5	45.7	1.6	44.4
1134	3.3	44.7	2.7	46.1	45.6	1.6	44.2
201	1.7	46.1	2.7	47.6	45.7	1.6	44.3
224	0.6	43.8	2.7	45.2	45.8	1.6	44.3
1174	4.5	43.8	2.7	45.2	45.7	1.6	44.3
285	3.1	41.7	2.8	43.0	45.7	1.5	44.3
1223	4.2	47.3	2.6	48.8	45.7	1.7	44.4
334	3.3	46.7	2.6	48.2	45.7	1.6	44.3
378	4.9	42.1	2.8	43.5	45.8	1.5	44.3
418	4.7	43.8	2.7	45.2	45.8	1.6	44.4
427	4.1	46.6	2.6	48.0	45.7	1.6	44.4
1302	4.2	45.5	2.7	46.9	45.7	1.6	44.4
1311	4.6	45.2	2.7	46.6	45.7	1.6	44.3
1328	5.2	42.8	2.8	44.2	45.7	1.5	44.2
1375	5.1	47.1	2.6	48.5	45.7	1.6	44.4
582	2.8	45.8	2.7	47.2	45.7	1.6	44.3
1511	4.7	42.9	2.7	45.3	45.7	1.6	44.3
749	3.9	46.2	2.7	47.6	45.8	1.6	44.4
834	3.7	46.6	2.6	48.1	45.7	1.6	44.4
1614	4.5	46.1	2.7	47.6	45.6	1.6	44.3
902	4.0	45.3	2.7	46.7	45.7	1.6	44.4
28	4.6	43.6	2.7	45.0	45.8	1.6	44.3
36	4.5	42.9	2.7	44.3	45.7	1.5	44.3

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26 B	LAT-28 A	LAT-26 B	HRS	MIN
157	4.4	136.5	-0.5	137.8	44.3	1.5	45.7
187	4.9	133.6	-0.4	135.1	44.4	1.6	45.8
199	5.5	135.1	-0.5	136.5	44.3	1.6	45.7
1159	5.0	137.3	-0.5	138.7	44.2	1.5	45.7
285	0.9	138.2	-0.5	139.5	44.2	1.5	45.7
263	2.8	135.1	-0.5	136.5	44.2	1.6	45.7
1198	4.9	137.9	-0.5	139.2	44.3	1.5	45.8
309	1.9	130.3	-0.3	131.8	44.3	1.7	45.6
435	5.4	130.6	-0.3	132.1	44.3	1.7	45.6
452	2.9	135.1	-0.5	136.5	44.2	1.6	45.6
464	4.2	134.4	-0.4	135.8	44.2	1.6	45.6
489	4.4	133.9	-0.4	135.4	44.3	1.6	45.7
512	3.1	130.1	-0.3	131.7	44.3	1.7	45.6
541	2.9	130.3	-0.3	131.8	44.4	1.7	45.7
546	5.2	137.6	-0.5	138.9	44.3	1.5	45.8
1398	4.1	132.3	-0.4	133.7	44.4	1.6	45.8
558	3.5	137.2	-0.5	138.5	44.3	1.5	45.8
1411	5.5	137.6	-0.5	138.9	44.3	1.5	45.8
604	4.1	134.4	-0.4	135.8	44.3	1.6	45.7
651	3.0	134.0	-0.4	135.5	44.2	1.6	45.6
662	5.3	136.9	-0.5	138.3	44.2	1.5	45.7
1471	3.9	134.4	-0.4	135.8	44.2	1.6	45.7
735	5.0	131.5	-0.4	133.0	44.4	1.6	45.7
769	3.2	130.4	-0.3	131.9	44.3	1.7	45.6
776	4.7	137.2	-0.5	138.5	44.2	1.5	45.7
860	3.7	136.3	-0.5	137.7	44.2	1.5	45.7
15	4.9	132.6	-0.4	134.1	44.3	1.6	45.6
1044	4.0	133.0	-0.4	134.5	44.3	1.6	45.7
68	3.7	136.7	-0.5	138.1	44.3	1.5	45.7
82	3.8	136.5	-0.5	137.9	44.3	1.5	45.8
86	4.4	131.0	-0.3	132.5	44.4	1.7	45.7

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T	
		LAT-26	A LAT-24	LAT-26	B LAT-24	HRS	MIN
1603	4.7	316.5	2.7 315.1	45.8	-1.6 44.4	1	6
1606	5.2	315.0	2.6 313.6	45.8	-1.6 44.4	1	14
28	4.6	312.6	2.6 311.2	45.7	-1.7 44.4	2	56
36	4.5	313.3	2.6 311.8	45.8	-1.7 44.4	3	9
60	4.5	316.1	2.7 314.7	45.7	-1.6 44.3	3	45
1058	4.5	315.5	2.7 314.0	45.7	-1.6 44.3	4	14
85	4.3	314.6	2.6 313.2	45.7	-1.6 44.3	4	31
98	4.4	318.2	2.7 316.8	45.8	-1.5 44.3	4	40
1083	4.7	315.7	2.7 314.3	45.6	-1.6 44.2	5	0
123	3.8	317.4	2.7 316.0	45.8	-1.6 44.3	5	24
121	3.8	315.9	2.7 314.4	45.7	-1.6 44.3	5	25
1118	4.3	315.7	2.7 314.3	45.7	-1.6 44.3	6	16
1142	5.4	317.8	2.7 316.4	45.7	-1.5 44.2	7	5
208	4.5	317.1	2.7 315.7	45.7	-1.6 44.2	7	32
224	4.6	312.7	2.6 311.2	45.6	-1.7 44.3	8	2
1174	4.5	312.6	2.6 311.1	45.6	-1.7 44.3	8	49
285	3.1	314.6	2.6 313.1	45.7	-1.6 44.3	9	30
312	3.8	316.6	2.7 315.2	45.7	-1.6 44.2	10	15
365	3.8	318.2	2.7 316.8	45.7	-1.5 44.2	11	36
378	4.9	314.2	2.6 312.7	45.7	-1.6 44.3	12	4
396	3.9	316.8	2.7 315.4	45.8	-1.6 44.3	12	31
418	4.7	312.7	2.6 311.2	45.7	-1.7 44.3	13	12
457	4.2	315.6	2.7 314.2	45.7	-1.6 44.3	14	6
1328	5.2	313.4	2.6 312.0	45.6	-1.7 44.3	14	51
633	4.5	316.8	2.7 315.4	45.8	-1.6 44.3	18	56
680	3.7	317.1	2.7 315.7	45.8	-1.6 44.3	20	5
1484	5.4	316.2	2.7 314.8	45.7	-1.6 44.3	20	36
1511	4.7	312.4	2.6 310.9	45.7	-1.7 44.4	21	42
745	0.9	315.5	2.6 314.1	45.8	-1.6 44.3	21	52
772	5.2	318.2	2.7 316.9	45.7	-1.5 44.2	22	34
1555	4.8	318.3	2.7 317.0	45.7	-1.5 44.2	23	5
915	2.5	317.9	2.7 316.4	45.7	-1.5 44.2	23	40

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D	L.S.T				
		LAT-26 A	LAT-24 B		HRS	MIN			
829	2.2	228.2	-0.5	226.8	44.4	-1.7	45.8	1	27
960	3.7	221.8	-0.7	220.4	44.2	-1.5	45.7	2	0
856	2.2	228.3	-0.5	226.8	44.3	-1.7	45.7	2	0
15	4.9	225.5	-0.5	224.1	44.4	-1.6	45.8	3	48
1115	4.7	229.5	-0.4	228.0	44.4	-1.7	45.7	4	1
1744	4.7	225.1	-0.6	223.7	44.3	-1.6	45.7	4	47
67	4.4	229.2	-0.4	227.7	44.3	-1.7	45.6	5	13
96	4.4	227.1	-0.5	225.7	44.3	-1.6	45.7	5	45
187	4.9	224.5	-0.6	223.1	44.2	-1.6	45.6	8	20
199	5.5	222.9	-0.6	221.6	44.2	-1.5	45.7	8	33
1152	5.5	228.2	-0.5	226.7	44.3	-1.7	45.7	8	40
263	2.8	223.7	-0.6	221.7	44.3	-1.5	45.8	10	4
275	4.5	228.7	-0.5	227.2	44.3	-1.7	45.7	10	32
1203	5.3	228.9	-0.5	227.5	44.3	-1.7	45.7	11	7
209	1.9	227.9	-0.5	226.4	44.3	-1.7	45.6	11	28
1226	4.1	224.9	-0.5	223.4	44.3	-1.7	45.7	12	0
342	3.7	228.3	-0.5	226.8	44.3	-1.7	45.7	12	23
1273	5.1	228.5	-0.5	227.0	44.4	-1.7	45.7	13	52
435	5.4	227.5	-0.5	226.1	44.3	-1.7	45.7	14	54
452	2.9	223.0	-0.6	221.7	44.3	-1.5	45.8	15	22
464	4.2	223.7	-0.6	222.3	44.3	-1.5	45.7	15	42
489	4.4	224.2	-0.6	222.8	44.2	-1.6	45.7	16	21
512	3.1	228.0	-0.5	226.6	44.4	-1.7	45.7	17	14
541	2.9	227.9	-0.5	226.4	44.3	-1.7	45.7	18	0
1398	4.1	225.9	-0.5	224.4	44.3	-1.6	45.7	18	28
604	4.1	223.8	-0.6	222.4	44.3	-1.5	45.8	19	34
651	3.0	224.1	-0.6	222.7	44.3	-1.6	45.7	20	46
1471	3.9	223.7	-0.6	222.4	44.2	-1.5	45.7	21	20
1873	4.6	229.8	-0.4	228.3	44.4	-1.7	45.7	21	31
691	3.8	229.8	-0.4	228.3	44.3	-1.7	45.6	21	46
735	5.0	226.6	-0.5	225.2	44.3	-1.6	45.7	22	52
769	3.2	227.9	-0.5	226.3	44.3	-1.7	45.6	23	55

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT-26	A	LAT-24	B		LAT-24	HRS MIN
1058	4.5	44.5	2.7	45.9	45.7	1.6	44.3	0 10
85	4.3	45.4	2.6	46.9	45.7	1.6	44.3	0 23
98	4.4	41.8	2.7	43.1	45.7	1.5	44.3	0 48
1083	4.7	44.4	2.7	45.8	45.7	1.6	44.3	0 57
121	3.8	44.0	2.7	45.4	45.6	1.6	44.2	1 23
123	3.8	42.7	2.7	44.0	45.8	1.6	44.3	1 28
1118	4.3	44.3	2.7	45.7	45.7	1.6	44.2	2 13
1142	5.4	42.3	2.7	43.7	45.8	1.5	44.3	3 11
208	4.5	43.0	2.7	44.4	45.7	1.6	44.3	3 35
224	0.6	47.3	2.6	48.8	45.6	1.7	44.3	3 46
1174	4.5	47.6	2.6	49.1	45.7	1.7	44.4	4 23
285	3.1	45.4	2.6	46.9	45.7	1.6	44.3	5 22
312	3.8	43.4	2.7	44.8	45.7	1.6	44.2	6 16
365	3.8	41.9	2.7	43.2	45.7	1.5	44.3	7 44
378	4.9	45.9	2.6	47.4	45.7	1.6	44.3	7 54
396	3.9	43.1	2.7	44.5	45.7	1.6	44.2	8 33
418	4.7	47.3	2.6	48.8	45.7	1.7	44.3	8 56
450	4.2	44.5	2.6	45.9	45.8	1.6	44.4	10 2
1328	5.2	46.6	2.6	48.1	45.7	1.7	44.3	10 38
633	4.5	43.1	2.7	44.5	45.7	1.6	44.2	14 58
680	3.7	42.8	2.7	44.2	45.7	1.6	44.3	16 8
1484	5.4	43.8	2.7	45.2	45.7	1.6	44.3	16 35
1511	4.7	47.4	2.6	48.9	45.6	1.7	44.3	17 25
745	0.9	44.4	2.7	45.8	45.7	1.6	44.3	17 48
772	5.2	41.8	2.7	43.2	45.8	1.5	44.3	18 42
1555	4.8	41.6	2.7	43.0	45.7	1.5	44.2	19 14
815	2.5	42.3	2.7	43.7	45.7	1.5	44.3	19 46
1603	4.7	43.5	2.7	44.9	45.8	1.6	44.4	21 6
1606	5.2	44.8	2.6	46.3	45.7	1.6	44.3	21 8
28	4.6	47.2	2.6	48.7	45.6	1.7	44.3	22 40
36	4.5	46.7	2.6	48.2	45.7	1.7	44.4	22 55
60	4.5	43.8	2.7	45.2	45.7	1.6	44.2	23 44

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D	L.S.T				
		LAT-26	A LAT-24		LAT-26	B LAT-24	HRS	MIN	
187	4.9	135.5	-0.6	136.9	44.3	1.6	45.8	1	48
199	5.5	137.1	-0.6	138.4	44.2	1.5	45.7	2	5
1152	5.5	131.8	-0.5	133.3	44.3	1.7	45.7	2	10
263	2.9	137.0	-0.6	138.3	44.3	1.5	45.8	3	35
275	4.5	131.3	-0.5	132.8	44.3	1.7	45.7	3	52
1203	5.3	131.1	-0.5	132.6	44.3	1.7	45.6	4	27
309	1.9	132.1	-0.5	133.6	44.3	1.7	45.6	4	50
1226	4.1	131.1	-0.5	132.6	44.3	1.7	45.6	5	20
342	3.7	131.7	-0.5	133.2	44.3	1.7	45.7	5	44
1273	5.1	131.5	-0.5	133.0	44.4	1.7	45.7	7	12
435	5.4	132.5	-0.5	133.9	44.3	1.7	45.7	8	16
452	2.9	137.0	-0.6	138.4	44.3	1.5	45.7	8	53
464	4.2	136.3	-0.6	137.7	44.2	1.5	45.7	9	12
489	4.4	135.8	-0.6	137.2	44.3	1.6	45.7	9	50
512	3.1	132.0	-0.5	133.5	44.3	1.7	45.7	10	35
541	2.9	132.1	-0.5	133.6	44.4	1.7	45.7	11	21
1398	4.1	134.1	-0.5	135.5	44.3	1.6	45.7	11	53
604	4.1	136.3	-0.6	137.6	44.3	1.5	45.8	13	3
651	3.0	135.9	-0.6	137.3	44.2	1.6	45.7	14	15
1473	4.6	130.2	-0.4	131.7	44.3	1.7	45.7	14	45
1471	3.9	136.3	-0.6	137.6	44.2	1.5	45.7	14	50
691	3.8	130.2	-0.4	131.7	44.3	1.7	45.6	15	5
735	5.0	133.4	-0.5	134.8	44.2	1.6	45.6	16	16
769	3.2	132.2	-0.5	133.7	44.3	1.7	45.7	17	17
829	2.2	131.8	-0.5	133.2	44.4	1.7	45.7	18	47
856	2.2	131.7	-0.5	133.2	44.3	1.7	45.6	19	22
860	3.7	138.3	-0.7	139.6	44.2	1.5	45.7	19	35
15	4.9	134.5	-0.5	135.5	44.3	1.6	45.8	21	13
1015	4.7	130.5	-0.4	132.0	44.3	1.7	45.6	21	20
1044	4.7	134.9	-0.6	136.3	44.2	1.6	45.7	22	14
67	4.4	130.8	-0.5	132.3	44.3	1.7	45.6	22	33
86	4.4	137.9	-0.5	134.3	44.2	1.6	45.6	23	8

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-24	A LAT-22	LAT-24	B LAT-22	HRS	MIN
855	3.6	316.0	2.6	314.6	45.7	-1.6	44.3
1603	4.7	313.0	2.5	311.5	45.7	-1.7	44.3
1625	5.4	316.1	2.6	314.7	45.7	-1.6	44.3
60	4.5	312.6	2.5	311.1	45.6	-1.7	44.3
98	4.4	314.4	2.6	313.0	45.7	-1.7	44.4
123	3.8	313.6	2.5	312.2	45.8	-1.7	44.4
1142	5.4	314.1	2.6	312.6	45.7	-1.7	44.3
208	4.5	313.4	2.5	311.9	45.7	-1.7	44.3
1201	5.3	316.3	2.6	314.9	45.6	-1.6	44.2
312	3.8	312.8	2.5	311.3	45.7	-1.7	44.4
337	4.3	318.7	2.7	317.3	45.7	-1.5	44.2
1238	5.1	316.1	2.6	314.7	45.7	-1.6	44.2
1246	5.1	317.5	2.7	316.1	45.7	-1.6	44.2
365	3.8	314.5	2.6	313.0	45.7	-1.7	44.3
396	3.9	313.3	2.5	311.8	45.6	-1.7	44.3
409	5.3	315.9	2.6	314.5	45.7	-1.6	44.3
1126	5.0	315.2	2.6	313.8	45.6	-1.6	44.2
488	3.0	316.8	2.6	315.4	45.7	-1.6	44.2
1442	4.3	314.9	2.6	313.5	45.7	-1.7	44.3
633	4.5	313.3	2.5	311.8	45.6	-1.7	44.3
680	3.7	311.6	2.5	310.2	45.6	-1.7	44.3
1484	5.4	312.7	2.6	311.2	45.6	-1.7	44.3
725	5.1	317.6	2.7	316.3	45.8	-1.6	44.3
1503	5.2	318.5	2.7	317.2	45.7	-1.5	44.3
741	2.8	315.6	2.6	314.1	45.7	-1.6	44.3
768	4.0	316.9	2.6	315.6	45.8	-1.6	44.3
772	5.2	314.5	2.6	313.1	45.7	-1.7	44.3
1555	4.8	314.6	2.6	313.1	45.7	-1.7	44.3
915	2.5	314.0	2.6	312.6	45.7	-1.7	44.3

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-24	A LAT-22	LAT-24	B LAT-22	HRS	MIN
820	2.2	226.3	-0.6	224.8	44.3	-1.6	45.7
956	2.2	226.4	-0.6	225.0	44.3	-1.6	45.7
1605	4.1	228.8	-0.6	227.3	44.3	-1.7	45.7
989	4.9	228.4	-0.6	226.9	44.3	-1.7	45.6
3	3.9	228.0	-0.6	226.6	44.2	-1.7	45.6
15	4.9	223.5	-0.7	222.1	44.2	-1.6	45.7
1115	4.7	227.6	-0.6	226.1	44.3	-1.7	45.7
1044	4.0	223.1	-0.7	221.9	44.3	-1.6	45.8
67	4.4	227.3	-0.6	225.8	44.3	-1.7	45.7
86	4.4	225.2	-0.7	223.8	44.2	-1.6	45.7
167	5.2	229.3	-0.5	227.8	44.3	-1.7	45.6
187	4.9	222.5	-0.7	221.1	44.3	-1.5	45.7
1152	5.5	226.7	-0.6	224.8	44.3	-1.6	45.7
275	4.5	226.8	-0.6	225.4	44.3	-1.7	45.7
1203	5.3	227.0	-0.6	225.6	44.3	-1.7	45.7
309	1.9	226.0	-0.6	224.5	44.3	-1.6	45.7
1226	4.1	227.0	-0.6	225.6	44.3	-1.7	45.7
342	3.7	226.4	-0.6	224.9	44.3	-1.6	45.7
1273	5.1	226.5	-0.6	225.1	44.4	-1.6	45.8
435	5.4	225.6	-0.7	224.1	44.2	-1.6	45.6
446	4.7	229.2	-0.6	227.7	44.3	-1.7	45.6
489	4.4	222.2	-0.7	220.9	44.3	-1.5	45.8
512	3.1	226.1	-0.6	224.6	44.2	-1.6	45.6
1377	4.7	229.1	-0.5	227.6	44.4	-1.7	45.7
541	2.9	225.9	-0.6	224.5	44.2	-1.6	45.6
1398	4.1	223.9	-0.7	222.5	44.3	-1.6	45.7
596	4.8	229.1	-0.6	227.6	44.3	-1.7	45.6
651	3.0	222.1	-0.8	220.7	44.2	-1.5	45.7
1471	3.9	221.8	-0.8	220.4	44.3	-1.5	45.8
1473	4.6	227.9	-0.6	226.5	44.4	-1.7	45.7
691	3.8	227.9	-0.6	226.4	44.3	-1.7	45.6
735	5.0	224.7	-0.7	223.3	44.3	-1.6	45.7
769	3.2	225.8	-0.6	224.4	44.3	-1.6	45.7

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-24	A LAT-22	LAT-24	B LAT-22	HRS	MIN
98	4.4	45.5	2.6	46.9	45.7	1.7	44.3
123	3.8	46.1	2.6	47.6	45.6	1.7	44.3
1142	5.4	46.1	2.5	47.5	45.7	1.7	44.4
208	4.5	46.7	2.5	48.2	45.8	1.7	44.4
1201	5.3	43.8	2.6	45.2	45.7	1.6	44.3
312	3.8	47.1	2.5	48.6	45.7	1.7	44.4
337	4.3	41.3	2.7	42.6	45.7	1.5	44.2
1238	5.1	44.0	2.6	45.4	45.7	1.6	44.3
1246	5.1	42.7	2.6	44.1	45.8	1.6	44.3
365	3.8	45.6	2.6	47.0	45.7	1.7	44.3
396	3.9	46.8	2.5	48.3	45.7	1.7	44.4
409	5.3	44.2	2.6	45.6	45.7	1.6	44.3
1326	5.0	44.9	2.6	46.4	45.8	1.6	44.4
488	3.0	43.3	2.6	44.7	45.7	1.6	44.3
1442	4.3	45.1	2.6	46.6	45.7	1.7	44.3
633	4.5	46.8	2.5	48.3	45.7	1.7	44.3
680	3.7	46.6	2.5	48.0	45.8	1.7	44.4
1484	5.4	47.3	2.5	48.8	45.6	1.7	44.3
725	5.1	42.3	2.7	43.6	45.8	1.6	44.3
1503	5.2	41.5	2.7	42.8	45.7	1.5	44.3
741	2.8	44.3	2.6	45.8	45.7	1.6	44.3
768	4.0	42.9	2.6	44.3	45.7	1.6	44.3
772	5.2	45.6	2.6	47.0	45.7	1.7	44.3
1555	4.8	45.3	2.6	46.8	45.6	1.7	44.2
815	2.5	46.1	2.5	47.5	45.7	1.7	44.4
855	3.6	44.0	2.6	45.4	45.7	1.6	44.3
1603	4.7	47.0	2.5	48.5	45.7	1.7	44.3
1625	5.4	47.9	2.6	49.3	45.8	1.6	44.4
60	4.5	47.5	2.5	49.0	45.7	1.7	44.4

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-24	A LAT-22	LAT-24	B LAT-22	HRS	MIN
167	5.2	130.7	-0.5	132.2	44.3	1.7	45.7
187	4.9	137.5	-0.7	138.9	44.2	1.5	45.7
1152	5.5	133.7	-0.6	135.2	44.4	1.6	45.8
275	4.5	133.2	-0.6	134.7	44.3	1.7	45.7
1203	5.3	133.0	-0.6	134.4	44.3	1.7	45.7
309	1.9	134.0	-0.6	135.5	44.3	1.6	45.7
1226	4.1	133.0	-0.6	134.5	44.3	1.7	45.7
342	3.7	133.6	-0.6	135.1	44.3	1.6	45.7
1273	5.1	133.5	-0.6	134.9	44.2	1.6	45.6
435	5.4	134.4	-0.6	135.8	44.4	1.6	45.8
446	4.7	130.8	-0.5	132.3	44.3	1.7	45.7
489	4.4	137.9	-0.8	139.2	44.2	1.5	45.7
512	3.1	133.9	-0.6	135.3	44.3	1.6	45.7
1377	4.7	130.9	-0.6	132.4	44.3	1.7	45.6
541	2.9	134.1	-0.6	135.5	44.3	1.6	45.7
1398	4.1	136.1	-0.7	137.5	44.3	1.6	45.7
596	4.8	130.9	-0.6	132.4	44.3	1.7	45.7
651	3.0	137.9	-0.7	139.2	44.3	1.5	45.8
1473	4.6	132.1	-0.6	133.6	44.3	1.7	45.7
1471	3.9	138.3	-0.6	139.6	44.2	1.5	45.7
691	3.8	132.1	-0.6	133.6	44.3	1.7	45.6
735	5.0	135.3	-0.7	136.7	44.3	1.6	45.8
769	3.2	134.1	-0.6	135.6	44.4	1.6	45.8
829	2.2	133.7	-0.6	135.2	44.3	1.6	45.7
856	2.2	133.6	-0.6	135.0	44.3	1.6	45.7
1605	4.1	131.2	-0.6	132.7	44.4	1.7	45.8
889	4.9	131.5	-0.6	133.0	44.4	1.7	45.7
3	3.9	131.9	-0.6	133.4	44.4	1.7	45.7
15	4.9	136.5	-0.7	137.8	44.3	1.6	45.8
1015	4.7	132.5	-0.6	133.9	44.3	1.7	45.7
1044	4.0	136.9	-0.7	138.2	44.3	1.6	45.7
67	4.4	132.8	-0.6	134.2	44.2	1.7	45.6
86	4.4	134.8	-0.7	136.2	44.3	1.6	45.7

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-22	A LAT-20	LAT-22	B LAT-20		HRS	MIN
843	4.9	315.2	2.5	313.7	45.8	-1.7	44.4	0 25
855	3.6	312.6	2.5	311.1	45.6	-1.7	44.3	0 50
885	4.7	316.3	2.6	314.9	45.8	-1.6	44.3	1 30
1625	5.4	312.7	2.5	311.2	45.7	-1.7	44.3	2 1
125	4.3	316.9	2.6	315.6	45.7	-1.6	44.2	5 30
150	4.0	316.0	2.6	314.6	45.7	-1.6	44.3	6 2
1169	5.1	315.5	2.5	314.1	45.8	-1.7	44.4	8 19
256	3.4	316.8	2.6	315.4	45.8	-1.6	44.4	8 45
1193	4.9	315.1	2.5	313.7	45.7	-1.7	44.3	9 33
1201	5.3	312.6	2.4	311.1	45.7	-1.7	44.4	9 55
337	4.3	315.0	2.5	313.5	45.7	-1.7	44.3	11 2
1238	5.1	312.6	2.5	311.1	45.6	-1.7	44.3	11 16
1246	5.1	313.8	2.5	312.3	45.7	-1.7	44.3	11 38
380	1.3	315.1	2.5	313.6	45.8	-1.7	44.4	12 12
488	3.0	313.1	2.5	311.6	45.7	-1.7	44.4	15 10
1372	5.3	317.3	2.6	315.9	45.7	-1.6	44.3	16 18
635	4.9	316.5	2.6	315.1	45.8	-1.6	44.4	19 6
656	2.1	316.2	2.6	314.8	45.7	-1.6	44.3	19 36
725	5.1	314.7	2.5	313.8	45.6	-1.7	44.3	21 23
1503	5.2	314.8	2.5	313.4	45.7	-1.7	44.3	21 29
768	4.0	313.5	2.5	312.0	45.7	-1.7	44.3	22 40

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-22	A LAT-20	LAT-22	B LAT-20		HRS	MIN
829	2.2	224.2	-0.8	222.8	44.2	-1.6	45.7	1 9
946	4.0	229.4	-0.6	227.9	44.4	-1.8	45.7	1 37
856	2.2	224.3	-0.8	222.9	44.3	-1.6	45.7	1 44
1605	4.0	226.8	-0.7	225.4	44.3	-1.7	45.7	2 15
989	4.9	226.4	-0.7	225.0	44.3	-1.7	45.7	2 42
3	3.9	226.7	-0.7	224.6	44.3	-1.7	45.7	3 13
1015	4.7	225.6	-0.8	224.2	44.4	-1.6	45.8	3 45
49	3.4	229.7	-0.6	228.1	44.3	-1.8	45.6	4 36
67	4.4	225.2	-0.8	223.8	44.3	-1.6	45.8	4 57
86	4.4	223.1	-0.9	221.7	44.2	-1.6	45.7	5 27
167	5.2	227.4	-0.7	225.9	44.4	-1.7	45.8	7 37
1152	5.5	224.2	-0.8	222.8	44.3	-1.6	45.7	8 32
275	4.5	224.7	-0.8	223.3	44.3	-1.6	45.7	10 15
1203	5.3	225.7	-0.8	223.6	44.2	-1.6	45.6	10 50
309	1.9	223.9	-0.8	222.5	44.3	-1.6	45.7	11 11
1226	4.1	224.9	-0.8	223.5	44.2	-1.6	45.6	11 43
242	3.7	224.3	-0.8	222.9	44.3	-1.6	45.7	12 6
345	2.2	229.8	-0.6	228.3	44.3	-1.8	45.6	12 16
1273	5.1	224.5	-0.8	223.1	44.3	-1.6	45.7	13 35
435	5.4	223.5	-0.8	222.1	44.2	-1.6	45.7	14 36
446	4.7	227.2	-0.7	225.8	44.3	-1.7	45.6	14 56
512	3.1	224.1	-0.9	222.7	44.4	-1.6	45.8	16 57
1377	4.7	227.1	-0.7	225.7	44.3	-1.7	45.7	17 31
541	2.9	223.9	-0.8	222.5	44.3	-1.6	45.8	17 43
1398	4.1	221.7	-0.9	220.4	44.2	-1.5	45.7	18 9
1410	5.5	228.3	-0.7	226.8	44.3	-1.7	45.6	18 42
596	4.8	227.1	-0.7	225.7	44.3	-1.7	45.7	19 11
1473	4.6	225.9	-0.8	224.4	44.2	-1.7	45.6	21 14
691	3.8	225.8	-0.8	224.4	44.3	-1.7	45.7	21 30
1502	4.3	228.0	-0.7	226.6	44.3	-1.7	45.6	22 28
735	5.0	222.6	-0.8	221.2	44.3	-1.6	45.8	22 34
769	3.2	223.8	-0.8	222.4	44.3	-1.6	45.7	23 38
1542	5.1	228.7	-0.7	227.2	44.3	-1.7	45.7	23 55

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-22	A LAT-20	LAT-22	B LAT-20		HRS	MIN
125	4.3	43.2	2.6	44.6	45.7	1.6	44.3	1 29
150	4.0	44.1	2.6	45.5	45.7	1.6	44.3	1 57
1169	5.1	44.4	2.5	45.8	45.7	1.7	44.3	4 12
256	3.4	43.0	2.6	44.4	45.7	1.6	44.2	4 44
1193	4.9	45.0	2.5	46.4	45.8	1.7	44.4	5 24
1201	5.3	47.3	2.5	48.7	45.6	1.7	44.3	5 36
337	4.3	45.0	2.5	46.4	45.6	1.7	44.2	6 53
1238	5.1	47.4	2.5	48.9	45.6	1.7	44.3	6 57
1246	5.1	46.1	2.5	47.6	45.6	1.7	44.3	7 24
380	1.3	44.8	2.5	46.3	45.7	1.7	44.3	8 3
488	3.0	46.8	2.5	48.2	45.6	1.7	44.3	10 53
1372	5.3	42.6	2.6	44.0	45.7	1.6	44.2	12 19
635	4.9	43.5	2.6	44.9	45.8	1.6	44.3	15 3
656	2.1	43.8	2.6	45.2	45.7	1.6	44.3	15 32
725	5.1	46.0	2.5	47.4	45.8	1.7	44.4	17 10
1503	5.2	45.2	2.5	46.6	45.7	1.7	44.3	17 19
768	4.0	46.6	2.5	48.1	45.8	1.7	44.4	18 24
843	4.9	44.9	2.5	46.3	45.8	1.7	44.4	20 16
855	3.6	47.4	2.5	48.9	45.6	1.7	44.3	20 31
885	4.7	43.7	2.6	45.1	45.8	1.6	44.4	21 26
1625	5.4	47.3	2.5	48.8	45.7	1.7	44.4	21 42

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-22	A LAT-20	LAT-22	B LAT-20		HRS	MIN
167	5.2	132.7	-0.7	134.1	44.3	1.7	45.7	1 24
1152	5.5	135.8	-0.8	137.2	44.3	1.6	45.8	2 27
275	4.5	135.3	-0.8	136.7	44.3	1.6	45.7	4 9
1203	5.3	135.0	-0.8	136.4	44.4	1.6	45.8	4 43
309	1.9	136.1	-0.8	137.5	44.3	1.6	45.7	5 7
1226	4.1	135.0	-0.8	136.4	44.4	1.6	45.8	5 36
345	2.2	130.2	-0.6	131.7	44.4	1.8	45.7	5 58
342	3.7	135.7	-0.8	137.1	44.3	1.6	45.7	6 1
1273	5.1	135.5	-0.8	136.9	44.3	1.6	45.8	7 29
435	5.4	136.5	-0.8	137.8	44.3	1.6	45.8	8 33
446	4.7	132.8	-0.7	134.2	44.3	1.7	45.7	8 44
512	3.1	136.9	-0.8	137.3	44.3	1.6	45.7	10 52
1377	4.7	132.9	-0.7	134.3	44.3	1.7	45.6	11 19
541	2.9	136.2	-0.8	137.5	44.2	1.6	45.7	11 39
1398	4.1	138.3	-0.9	139.6	44.2	1.5	45.7	12 12
1410	5.5	131.7	-0.7	133.1	44.4	1.7	45.7	12 27
596	4.8	132.9	-0.7	134.3	44.3	1.7	45.7	12 59
1473	4.6	134.1	-0.7	135.5	44.3	1.7	45.7	15 5
691	3.8	134.2	-0.8	135.6	44.3	1.7	45.7	15 21
1502	4.3	131.9	-0.7	133.4	44.3	1.7	45.7	16 14
735	5.0	137.5	-0.8	138.8	44.2	1.6	45.7	16 34
769	3.2	136.2	-0.8	137.6	44.3	1.6	45.8	17 34
1542	5.1	131.3	-0.7	132.7	44.4	1.7	45.7	17 39
829	2.2	135.7	-0.8	137.1	44.4	1.6	45.8	19 4
846	4.0	130.6	-0.7	132.1	44.3	1.8	45.6	19 20
856	2.2	135.7	-0.8	137.1	44.3	1.6	45.7	19 39
1605	4.1	133.2	-0.7	134.6	44.4	1.7	45.8	20 3
889	4.9	133.5	-0.7	135.0	44.4	1.7	45.8	20 31
3	3.9	134.0	-0.7	135.4	44.2	1.7	45.6	21 4
1015	4.7	134.5	-0.8	135.9	44.3	1.6	45.7	21 36
49	3.4	130.3	-0.6	131.9	44.3	1.8	45.6	22 19
67	4.4	134.8	-0.8	136.2	44.3	1.6	45.7	22 49
86	4.4	136.9	-0.8	138.2	44.3	1.6	45.8	23 25

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT-20	A	LAT-18	LAT-20	B	LAT-18	HRS	MIN
871	2.6	317.9	2.5	316.5	45.7	-1.6	44.3	1	3
885	4.7	312.9	2.4	311.5	45.7	-1.8	44.3	1	38
7	2.9	317.7	2.5	316.4	45.8	-1.6	44.3	2	12
52	3.7	318.2	2.6	316.9	45.7	-1.6	44.3	3	29
1079	5.5	317.7	2.5	316.4	45.7	-1.6	44.2	4	50
125	4.3	313.3	2.4	311.8	45.7	-1.7	44.4	5	39
150	4.0	312.6	2.4	311.1	45.6	-1.8	44.3	6	10
1125	4.8	317.4	2.5	316.9	45.7	-1.6	44.2	6	33
1136	5.2	316.0	2.5	314.6	45.8	-1.7	44.3	6	55
1140	4.7	319.6	2.6	317.2	45.7	-1.6	44.2	7	1
232	4.4	317.3	2.5	315.9	45.7	-1.6	44.2	8	7
256	3.4	313.5	2.4	312.0	45.7	-1.7	44.3	8	53
444	2.2	317.1	2.5	315.7	45.7	-1.6	44.2	13	49
1349	5.2	315.4	2.5	314.0	45.7	-1.7	44.3	15	32
1372	5.3	313.9	2.4	312.4	45.6	-1.7	44.3	16	26
583	3.7	318.6	2.6	317.3	45.8	-1.6	44.3	17	43
613	4.5	315.9	2.5	314.5	45.6	-1.7	44.2	18	29
635	4.9	313.1	2.4	311.7	45.7	-1.7	44.4	19	14
656	2.1	312.8	2.4	311.3	45.6	-1.8	44.3	19	44
712	4.2	317.8	2.5	316.5	45.7	-1.6	44.2	20	58
716	3.9	315.4	2.5	314.0	45.6	-1.7	44.2	21	9
1526	5.0	317.9	2.5	316.5	45.8	-1.6	44.4	22	13
778	4.5	317.9	2.5	316.4	45.7	-1.6	44.2	22	42

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT-20	A	LAT-18	LAT-20	B	LAT-18	HRS	MIN
829	2.3	222.0	-1.9	220.7	44.2	-1.6	45.7	1	0
846	4.0	227.4	-0.8	225.9	44.3	-1.7	45.7	1	29
856	2.2	222.2	-1.9	220.8	44.3	-1.6	45.8	1	35
1605	4.1	224.6	-0.9	223.2	44.2	-1.6	45.6	2	6
889	4.9	224.2	-0.9	222.9	44.2	-1.6	45.7	2	33
1617	4.8	228.6	-0.8	227.1	44.3	-1.8	45.6	2	36
3	3.9	223.0	-0.9	222.6	44.4	-1.6	45.8	3	5
12	2.4	229.1	-0.8	227.6	44.3	-1.8	45.7	3	28
1215	4.7	223.4	-0.9	222.0	44.3	-1.6	45.8	3	36
49	3.4	227.6	-0.8	226.2	44.4	-1.7	45.8	4	29
67	4.4	223.1	-0.9	221.7	44.3	-1.6	45.8	4	48
1053	5.0	228.8	-0.8	227.4	44.3	-1.8	45.7	4	56
119	4.3	229.0	-0.8	227.6	44.4	-1.7	45.7	6	21
155	3.8	229.2	-0.8	227.7	44.3	-1.8	45.6	7	16
167	5.2	225.2	-0.9	223.8	44.3	-1.7	45.7	7	28
1152	5.5	222.0	-1.9	220.7	44.3	-1.6	45.8	8	23
229	4.0	229.5	-0.8	227.1	44.4	-1.8	45.7	9	1
252	3.2	228.0	-0.8	226.5	44.4	-1.7	45.7	9	30
275	4.5	222.5	-0.9	221.2	44.3	-1.6	45.7	10	6
1184	5.3	229.2	-0.8	227.7	44.3	-1.8	45.6	10	6
1194	3.3	227.9	-0.8	226.4	44.3	-1.7	45.7	10	30
1203	5.3	222.9	-0.9	221.4	44.2	-1.6	45.7	10	41
1226	4.1	222.7	-0.9	221.4	44.2	-1.6	45.7	11	34
324	4.1	228.4	-0.8	226.9	44.3	-1.7	45.7	11	39
382	3.7	222.1	-1.0	220.8	44.3	-1.6	45.8	11	57
385	2.2	227.7	-0.8	226.2	44.2	-1.7	45.6	12	8
382	4.1	229.7	-0.7	228.2	44.3	-1.8	45.6	13	17
1273	5.1	222.3	-0.9	221.0	44.3	-1.6	45.8	13	26
415	4.6	229.6	-0.7	228.1	44.4	-1.8	45.7	14	3
446	4.7	225.1	-0.9	223.7	44.3	-1.7	45.7	14	48
449	5.3	229.3	-0.7	227.8	44.4	-1.8	45.7	15	6
512	3.1	221.8	-1.0	220.5	44.2	-1.6	45.7	16	47
518	3.3	229.2	-0.8	227.7	44.3	-1.8	45.6	16	51
1277	4.7	225.0	-0.9	223.7	44.4	-1.7	45.8	17	23
537	2.7	229.7	-0.7	228.2	44.4	-1.8	45.7	17	38
552	2.8	228.2	-0.8	226.7	44.3	-1.7	45.7	17	59
553	3.4	229.7	-0.7	228.2	44.3	-1.8	45.6	18	1
1810	5.5	226.0	-0.8	224.8	44.3	-1.7	45.7	18	34
596	4.8	225.0	-0.9	223.6	44.3	-1.7	45.8	19	3
639	3.4	227.9	-0.8	226.4	44.3	-1.7	45.7	20	12
654	2.0	228.3	-0.8	226.8	44.4	-1.7	45.7	20	38
1473	4.6	223.9	-0.9	222.4	44.3	-1.6	45.8	21	6
691	3.8	223.7	-0.9	222.3	44.2	-1.6	45.7	21	21
697	4.7	229.2	-0.8	227.7	44.3	-1.8	45.7	21	35
1502	4.3	226.0	-0.9	224.5	44.3	-1.7	45.7	22	20
1542	5.1	226.6	-0.8	225.2	44.3	-1.7	45.7	22	47

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT-20	A	LAT-18	LAT-20	B	LAT-18	HRS	MIN
1079	5.5	42.2	2.5	43.6	45.7	1.6	44.2	0	51
125	4.3	46.6	2.4	48.1	45.6	1.7	44.3	1	21
150	4.9	47.4	2.4	48.9	45.6	1.8	44.3	1	49
1125	4.8	42.7	2.5	44.1	45.7	1.6	44.3	2	32
1136	5.2	44.0	2.5	45.4	45.7	1.7	44.3	2	48
1140	4.7	41.6	2.6	43.0	45.8	1.6	44.3	3	5
232	4.4	42.7	2.5	44.1	45.7	1.6	44.2	4	6
256	3.4	46.6	2.4	48.1	45.7	1.7	44.4	4	35
444	2.2	42.9	2.5	44.3	45.7	1.6	44.2	9	47
1349	5.2	44.5	2.5	46.0	45.7	1.7	44.3	11	23
1372	5.3	46.2	2.4	47.7	45.7	1.7	44.4	12	10
583	3.7	41.2	2.6	42.6	45.7	1.6	44.2	13	48
613	4.5	44.1	2.5	45.5	45.6	1.7	44.2	14	21
635	4.9	46.8	2.4	48.3	45.7	1.7	44.3	14	55
656	2.1	47.2	2.4	48.7	45.6	1.8	44.3	15	24
712	4.2	42.3	2.5	43.6	45.8	1.6	44.3	16	59
716	3.0	44.6	2.5	46.0	45.6	1.7	44.2	17	0
1526	5.0	42.1	2.5	43.4	45.8	1.6	44.3	18	14
778	4.5	42.3	2.5	43.6	45.7	1.6	44.2	18	43
871	2.6	42.2	2.5	43.6	45.8	1.6	44.3	21	4
885	4.7	47.1	2.4	48.6	45.7	1.8	44.4	21	18
7	2.9	42.1	2.6	43.5	45.7	1.6	44.2	22	13
50	3.7	41.8	2.6	43.1	45.7	1.6	44.2	22	32

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. I			L. S. T	
		LAT-20	A	LAT-18	LAT-20	B	LAT-18	HRS	MIN
119	4.3	132.0	-0.8	133.5	44.2	1.7	45.6	0	18
155	3.8	130.7	-0.7	132.2	44.4	1.8	45.7	1	10
167	5.2	134.8	-0.9	136.2	44.3	1.7	45.8	1	32
1152	5.5	138.0	-1.0	139.3	44.3	1.6	45.8	2	36
229	4.0	131.5	-0.8	132.9	44.4	1.8	45.7	2	56
252	3.2	132.1	-0.8	133.5	44.3	1.7	45.6	3	36
1184	5.3	130.7	-0.7	132.2	44.4	1.8	45.7	4	0
275	4.5	137.5	-0.9	138.8	44.3	1.6	45.7	4	18
1194	3.3	132.1	-0.8	133.6	44.4	1.7	45.7	4	27
1213	5.3	137.1	-0.9	138.5	44.3	1.6	45.8	4	52
324	4.1	131.6	-0.8	133.1	44.3	1.7	45.7	5	35
1226	4.1	137.3	-0.9	138.6	44.2	1.6	45.7	5	46
345	2.2	132.3	-0.8	133.7	44.3	1.7	45.7	6	6
342	3.7	137.9	-1.0	139.2	44.3	1.6	45.8	6	10
382	4.1	130.3	-0.7	131.8	44.4	1.8	45.7	7	10
1273	5.1	137.7	-0.9	139.0	44.3	1.6	45.8	7	38
415	4.6	130.4	-0.7	132.0	44.3	1.8	45.7	7	56
446	4.7	134.9	-0.9	136.3	44.3	1.7	45.8	8	52
449	5.3	130.8	-0.8	132.3	44.3	1.8	45.6	9	0
508	3.3	130.9	-0.8	132.4	44.3	1.6	45.6	10	46
512	3.1	138.1	-1.0	139.5	44.3	1.6	45.8	11	1
1377	4.7	135.0	-0.9	136.4	44.3	1.7	45.7	11	27
537	2.7	130.4	-0.7	131.9	44.3	1.8	45.6	11	31
553	3.4	130.3	-0.7	131.8	44.4	1.8	45.7	11	54
552	2.8	131.8	-0.8	133.3	44.4	1.7	45.8	11	55
1410	5.5	133.7	-0.8	135.2	44.4	1.7	45.8	12	35
596	4.8	134.9	-0.9	136.3	44.3	1.7	45.8	13	7
639	3.4	132.1	-0.8	133.5	44.4	1.7	45.7	14	9
654	2.0	131.7	-0.8	133.2	44.3	1.7	45.7	14	34
1473	4.6	136.3	-0.9	137.6	44.3	1.6	45.7	15	14
697	4.7	130.7	-0.8	132.2	44.4	1.8	45.7	15	29
691	3.8	136.3	-0.9	137.7	44.2	1.6	45.7	15	30
1502	4.3	134.0	-0.8	135.4	44.3	1.7	45.7	16	22
1542	5.1	133.3	-0.8	134.8	44.4	1.7	45.7	17	47
829	2.2	138.0	-1.0	139.3	44.2	1.6	45.7	19	14
846	4.0	132.6	-0.8	134.1	44.4	1.7	45.7	19	27
856	2.2	137.9	-1.0	139.2	44.3	1.6	45.8	19	48
1605	4.1	135.3	-0.9	136.7	44.3	1.6	45.7	20	12
1617	4.8	131.4	-0.8	132.9	44.3	1.8	45.6	20	32
899	4.9	135.7	-0.9	137.1	44.3	1.6	45.7	20	40
3	3.9	136.1	-0.9	137.4	44.3	1.6	45.8	21	12
12	2.4	130.8	-0.7	132.3	44.4	1.8	45.8	21	22
1015	4.7	136.6	-0.9	138.0	44.3	1.6	45.7	21	45
49	3.4	132.4	-0.9	133.8	44.4	1.7	45.8	22	26
1053	5.0	131.2	-0.8	132.6	44.3	1.8	45.7	22	51
67	4.4	136.9	-0.9	138.3	44.3	1.6	45.7	22	58

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-19	A LAT-16	LAT-18		B LAT-16	HRS MIN
871	2.6	314.3	2.4	312.9	45.8	-1.7	44.4
7	2.9	314.4	2.4	313.0	45.7	-1.7	44.3
1020	5.2	318.0	2.5	316.6	45.7	-1.6	44.2
50	3.7	314.6	2.4	313.2	45.8	-1.7	44.4
1079	5.5	314.1	2.4	312.7	45.8	-1.7	44.4
159	3.9	315.3	2.4	313.8	45.8	-1.7	44.4
168	1.1	317.1	2.5	315.7	45.8	-1.6	44.3
1125	4.8	313.8	2.4	312.3	45.7	-1.7	44.4
1136	5.2	312.7	2.3	311.2	45.7	-1.8	44.4
1140	4.7	315.0	2.4	313.6	45.7	-1.7	44.3
232	4.4	313.7	2.4	312.2	45.8	-1.7	44.4
251	1.9	317.3	2.5	315.6	45.7	-1.7	44.3
1188	5.3	316.5	2.4	315.1	45.8	-1.7	44.4
277	3.7	317.3	2.5	315.9	45.8	-1.6	44.4
279	3.6	317.8	2.5	316.5	45.8	-1.6	44.3
423	3.4	315.3	2.4	313.0	45.7	-1.7	44.3
444	2.2	313.5	2.3	312.0	45.8	-1.8	44.4
1338	5.3	315.7	2.3	314.3	45.7	-1.7	44.3
570	5.5	315.2	2.4	313.8	45.7	-1.7	44.3
583	3.7	315.1	2.4	313.6	45.8	-1.7	44.4
591	3.9	315.6	2.4	314.2	45.7	-1.7	44.3
1421	5.3	318.5	2.5	317.2	45.7	-1.6	44.2
612	4.5	312.5	2.3	311.0	45.6	-1.8	44.3
1460	4.7	317.7	2.5	316.4	45.7	-1.6	44.3
712	4.2	314.2	2.4	312.8	45.7	-1.7	44.3
1525	5.0	314.5	2.4	313.1	45.7	-1.7	44.3
774	3.9	315.9	2.4	314.4	45.8	-1.7	44.4
1541	4.5	316.2	2.4	314.8	45.8	-1.7	44.4
778	4.5	314.2	2.4	312.7	45.7	-1.7	44.4

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-19	A LAT-16	LAT-18		B LAT-16	HRS MIN
302	4.9	229.2	-1.9	227.7	44.3	-1.8	45.6
446	4.0	225.2	-1.7	223.8	44.4	-1.7	45.8
1605	4.1	222.4	-1.1	221.0	44.2	-1.6	45.7
889	4.9	222.0	-1.1	220.7	44.2	-1.6	45.7
1617	4.8	226.5	-0.9	225.0	44.2	-1.7	45.6
12	2.4	226.0	-0.9	225.5	44.3	-1.7	45.6
1311	5.2	228.3	-0.9	226.9	44.4	-1.8	45.9
49	3.4	225.4	-1.0	224.0	44.2	-1.7	45.6
1053	5.0	226.7	-0.9	225.2	44.3	-1.7	45.7
119	4.3	225.9	-1.0	224.5	44.4	-1.7	45.8
155	3.8	227.1	-0.9	225.7	44.4	-1.7	45.8
167	5.2	222.9	-1.0	221.6	44.2	-1.6	45.7
1129	4.5	227.8	-0.9	226.3	44.3	-1.7	45.7
229	4.0	226.4	-0.9	224.9	44.3	-1.7	45.7
252	3.2	225.9	-1.0	224.4	44.4	-1.7	45.8
1184	5.3	227.2	-0.9	225.7	44.4	-1.7	45.7
1194	3.3	225.7	-1.0	224.3	44.3	-1.7	45.7
324	4.1	226.2	-0.9	224.9	44.3	-1.7	45.7
1234	4.4	228.0	-0.9	227.4	44.4	-1.8	45.7
345	2.2	225.5	-1.0	224.1	44.2	-1.7	45.7
382	4.1	227.6	-0.9	226.1	44.4	-1.7	45.7
1268	5.0	228.3	-0.9	226.8	44.3	-1.8	45.6
415	4.6	227.4	-0.9	226.0	44.3	-1.7	45.7
446	4.7	222.0	-1.0	221.5	44.3	-1.6	45.7
449	5.3	227.1	-0.9	225.7	44.3	-1.7	45.7
508	3.3	227.1	-0.9	225.6	44.4	-1.7	45.8
1277	4.7	222.8	-1.0	221.5	44.3	-1.6	45.8
377	2.7	227.5	-0.9	226.0	44.2	-1.7	45.7
552	2.8	226.0	-0.9	224.6	44.3	-1.7	45.7
553	3.4	227.6	-0.9	226.1	44.4	-1.7	45.7
1410	5.5	224.0	-1.0	222.7	44.3	-1.6	45.8
596	4.8	222.8	-1.0	221.4	44.3	-1.6	45.8
1418	5.1	228.1	-0.9	226.6	44.4	-1.8	45.7
638	3.4	225.7	-1.0	224.2	44.3	-1.7	45.7
654	2.0	226.1	-0.9	224.7	44.3	-1.7	45.8
697	4.7	227.1	-0.9	225.6	44.3	-1.7	45.6
1502	4.3	223.8	-1.0	222.4	44.2	-1.6	45.8
728	4.1	229.6	-0.8	228.1	44.4	-1.8	45.7
1520	4.2	227.7	-0.9	226.3	44.3	-1.7	45.7
1542	5.1	224.5	-1.0	223.1	44.4	-1.7	45.8

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-19	A LAT-16	LAT-18		B LAT-16	HRS MIN
1079	5.5	45.8	2.4	47.3	45.7	1.7	44.3
159	3.9	44.6	2.4	46.0	45.7	1.7	44.3
1125	4.8	46.1	2.4	47.5	45.6	1.7	44.3
168	1.1	42.8	2.5	44.2	45.7	1.6	44.2
1136	5.2	47.3	2.3	48.8	45.7	1.8	44.3
1140	4.7	45.0	2.4	46.4	45.6	1.7	44.3
232	4.4	46.3	2.4	47.7	45.7	1.7	44.4
251	1.9	43.0	2.5	44.4	45.8	1.7	44.3
1188	5.3	43.4	2.4	44.8	45.7	1.7	44.3
277	3.7	42.7	2.5	44.1	45.8	1.6	44.3
379	3.6	42.0	2.5	43.4	45.7	1.6	44.3
423	3.4	44.7	2.4	46.2	45.7	1.7	44.3
444	2.2	46.3	2.4	47.7	45.6	1.7	44.2
1308	5.5	44.4	2.4	45.8	45.8	1.7	44.4
570	5.5	44.7	2.4	46.1	45.6	1.7	44.2
583	3.7	44.8	2.4	46.2	45.7	1.7	44.3
591	3.9	44.4	2.4	45.8	45.8	1.7	44.3
1421	5.3	41.5	2.5	42.9	45.7	1.6	44.3
613	4.5	47.5	2.3	49.0	45.6	1.6	44.3
1469	4.7	42.4	2.5	43.7	45.8	1.6	44.3
712	4.2	45.6	2.4	47.1	45.6	1.7	44.2
1526	5.0	45.4	2.4	46.9	45.6	1.7	44.2
774	3.9	44.1	2.4	45.5	45.7	1.7	44.3
778	4.5	45.8	2.4	47.3	45.7	1.7	44.4
1541	4.5	43.7	2.4	45.1	45.7	1.7	44.3
871	2.6	45.6	2.4	47.0	45.7	1.7	44.3
7	2.9	45.7	2.4	47.1	45.7	1.7	44.4
1020	5.2	42.2	2.5	43.6	45.8	1.6	44.3
50	3.7	45.3	2.4	46.8	45.7	1.7	44.3

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T	
		LAT-19	A LAT-16	LAT-18		B LAT-16	HRS MIN
119	4.3	134.2	-1.0	135.6	44.2	1.7	45.6
155	3.8	132.9	-0.9	134.4	44.3	1.7	45.7
167	5.2	137.0	-1.0	138.4	44.3	1.6	45.8
1129	4.5	132.3	-0.9	133.7	44.3	1.7	45.7
229	4.0	133.6	-0.9	135.0	44.4	1.7	45.8
252	3.2	134.2	-1.0	135.6	44.3	1.7	45.7
1184	5.3	132.9	-0.9	134.3	44.3	1.7	45.7
1194	3.3	134.3	-1.0	135.7	44.4	1.7	45.8
324	4.1	133.8	-0.9	135.2	44.3	1.7	45.7
1234	4.4	131.2	-0.9	132.6	44.3	1.6	45.7
345	2.2	134.5	-1.0	135.9	44.3	1.7	45.7
382	4.1	132.4	-0.9	133.9	44.3	1.7	45.7
1268	5.0	131.7	-0.9	133.2	44.3	1.6	45.6
415	4.6	132.6	-0.9	134.1	44.2	1.7	45.6
446	4.7	137.1	-1.0	138.5	44.3	1.6	45.8
449	5.3	132.9	-0.9	134.3	44.4	1.7	45.8
508	3.3	132.9	-0.9	134.4	44.4	1.7	45.7
324	4.7	137.2	-1.0	138.6	44.3	1.6	45.8
537	2.7	132.5	-0.9	133.9	44.4	1.7	45.8
553	3.4	132.4	-0.9	133.9	44.3	1.7	45.7
552	2.8	134.1	-1.0	135.5	44.2	1.7	45.6
1410	5.5	136.0	-1.0	137.4	44.3	1.6	45.7
1418	5.1	132.0	-0.9	133.4	44.3	1.6	45.6
596	4.9	137.2	-1.0	138.5	44.3	1.6	45.8
638	3.4	134.2	-1.0	135.6	44.4	1.7	45.8
654	2.0	133.9	-0.9	135.3	44.3	1.7	45.7
697	4.7	132.9	-0.9	134.4	44.3	1.7	45.7
728	4.1	130.4	-0.8	131.9	44.4	1.6	45.7
1502	4.3	136.3	-1.0	137.6	44.2	1.6	45.7
1520	4.2	137.3	-0.9	138.8	44.3	1.7	45.7
1542	5.1	135.6	-1.0	137.0	44.2	1.7	45.7
802	4.9	130.8	-0.9	132.3	44.3	1.6	45.6
846	4.0	134.9	-1.0	136.3	44.2	1.7	45.6
1605	4.1	137.6	-1.0	138.9	44.3	1.6	45.8
1617	4.8	133.5	-0.9	135.0	44.2	1.7	45.6
889	4.9	138.0	-1.1	139.3	44.3	1.6	45.8
12	2.4	133.0	-0.9	134.5	44.4	1.7	45.7
1031	5.2	131.8	-0.9	133.2	44.4	1.6	45.7
89	3.4	134.6	-1.0	136.0	44.2	1.7	45.6
1253	5.0	133.3	-0.9	134.6	44.3	1.7	45.7

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT-16	A	LAT-14	LAT-16			
							HRS	MIN
998	5.2	318.9	2.4	317.5	45.7	-1.6	44.2	1 51
1020	5.2	314.5	2.3	313.0	45.7	-1.7	44.3	2 57
162	3.9	315.8	2.4	314.4	45.7	-1.7	44.3	6 28
168	1.1	313.8	2.3	312.4	45.7	-1.8	44.3	6 45
1135	5.1	318.4	2.4	317.0	45.8	-1.6	44.3	6 51
1148	5.3	316.8	2.4	315.4	45.7	-1.7	44.2	7 30
219	5.5	316.1	2.4	314.7	45.8	-1.7	44.4	7 52
251	1.9	313.7	2.3	312.3	45.7	-1.8	44.3	8 47
1189	5.3	313.2	2.3	311.7	45.7	-1.8	44.4	9 24
777	3.7	314.0	2.3	312.5	45.7	-1.8	44.3	9 27
1200	5.0	317.8	2.4	316.5	45.8	-1.6	44.3	9 47
326	4.2	317.2	2.4	315.8	45.8	-1.7	44.3	10 47
379	3.6	314.6	2.3	313.1	45.7	-1.7	44.3	12 15
1308	5.5	312.4	2.2	311.0	45.7	-1.8	44.4	14 8
473	5.2	317.8	2.4	316.4	45.7	-1.6	44.2	14 36
507	4.5	316.0	2.4	314.6	45.7	-1.7	44.2	15 52
513	2.8	317.7	2.4	316.3	45.8	-1.6	44.3	15 56
584	4.3	317.2	2.4	315.8	45.7	-1.7	44.3	17 51
591	2.9	312.3	2.2	310.8	45.7	-1.8	44.4	18 9
1421	5.3	315.0	2.3	313.6	45.7	-1.7	44.3	18 15
1454	5.2	317.0	2.4	315.6	45.7	-1.7	44.2	19 23
1469	4.7	314.4	2.3	313.0	45.6	-1.7	44.2	20 8
1491	4.4	317.0	2.4	315.6	45.8	-1.7	44.3	20 50
1513	4.5	315.6	2.3	314.2	45.8	-1.7	44.4	21 47
742	3.9	317.6	2.4	316.2	45.8	-1.6	44.3	21 49
774	3.9	312.7	2.3	311.2	45.6	-1.8	44.3	22 51
1541	4.5	312.0	2.3	311.5	45.7	-1.9	44.4	22 58

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT-16	A	LAT-14	LAT-16			
							HRS	MIN
802	4.9	227.1	-1.0	225.6	44.4	-1.7	45.7	0 17
1591	4.6	229.0	-1.0	227.5	44.4	-1.8	45.7	0 59
846	4.7	222.8	-1.1	221.5	44.3	-1.6	45.8	1 12
845	5.5	229.6	-0.9	228.1	44.3	-1.8	45.6	1 21
1593	5.4	220.6	-0.9	228.1	44.4	-1.8	45.7	1 44
1617	4.8	224.2	-1.1	222.8	44.3	-1.7	45.7	2 20
12	2.4	224.7	-1.1	223.3	44.3	-1.7	45.7	3 12
1331	5.2	226.0	-1.0	224.6	44.4	-1.7	45.8	3 56
49	3.4	223.1	-1.1	221.9	44.3	-1.6	45.8	4 12
1553	5.0	224.4	-1.1	223.0	44.3	-1.7	45.8	4 40
1275	4.1	228.5	-1.0	227.0	44.3	-1.8	45.6	5 32
16	3.4	227.0	-1.0	226.4	44.3	-1.8	45.7	5 40
119	4.3	223.5	-1.1	222.2	44.3	-1.6	45.7	6 4
120	4.6	227.9	-1.0	226.5	44.3	-1.9	45.7	6 28
155	3.8	224.8	-1.1	223.4	44.2	-1.7	45.7	7 0
1129	4.5	225.5	-1.1	224.1	44.3	-1.7	45.7	7 28
229	4.0	224.0	-1.1	222.7	44.2	-1.7	45.7	8 44
252	3.2	223.5	-1.1	222.1	44.3	-1.6	45.7	9 22
1194	5.3	224.8	-1.1	223.4	44.2	-1.7	45.6	9 50
1194	3.3	223.7	-1.1	222.0	44.2	-1.6	45.7	10 13
301	3.8	227.7	-1.0	226.2	44.4	-1.8	45.8	10 43
306	2.3	224.5	-1.0	223.0	44.3	-1.8	45.6	10 55
324	4.1	223.8	-1.1	222.4	44.2	-1.7	45.7	11 22
1234	4.4	226.6	-1.0	225.2	44.3	-1.7	45.7	11 40
345	2.2	223.2	-1.1	221.9	44.3	-1.6	45.8	11 52
382	4.1	225.3	-1.1	223.9	44.4	-1.7	45.8	13 2
1268	5.0	226.0	-1.1	224.6	44.2	-1.7	45.7	13 10
415	4.6	225.2	-1.1	223.8	44.3	-1.7	45.8	13 47
449	5.3	224.0	-1.1	222.5	44.4	-1.7	45.8	14 50
482	4.3	228.3	-1.0	226.8	44.3	-1.8	45.6	15 44
508	3.3	224.7	-1.1	223.3	44.2	-1.7	45.7	16 35
537	2.7	225.2	-1.1	223.8	44.3	-1.7	45.7	17 22
552	2.8	223.6	-1.1	222.3	44.2	-1.6	45.7	17 42
553	3.4	225.3	-1.1	223.9	44.4	-1.7	45.8	17 46
1402	3.4	227.6	-1.0	226.1	44.3	-1.8	45.7	18 11
1418	5.1	225.0	-1.1	224.4	44.4	-1.7	45.8	18 47
639	3.4	223.4	-1.1	222.0	44.2	-1.6	45.7	19 55
654	2.0	223.8	-1.1	222.4	44.2	-1.6	45.7	20 21
666	3.1	228.2	-1.0	226.8	44.3	-1.8	45.7	20 38
697	4.7	224.9	-1.1	223.4	44.3	-1.7	45.7	21 19
728	4.1	227.4	-1.0	225.9	44.3	-1.8	45.6	22 13
1527	4.2	225.5	-1.1	224.1	44.3	-1.7	45.7	22 42
1542	5.1	222.0	-1.2	220.7	44.2	-1.6	45.7	23 20

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT-16	A	LAT-14	LAT-16			
							HRS	MIN
162	3.9	44.1	2.4	45.5	45.6	1.7	44.2	2 16
168	1.1	46.3	2.3	47.8	45.8	1.8	44.4	2 24
1135	5.1	41.5	2.4	42.8	45.7	1.6	44.2	2 50
1148	5.3	43.2	2.4	44.6	45.7	1.7	44.2	3 22
218	5.5	43.9	2.4	45.2	45.7	1.7	44.3	3 41
251	1.9	46.3	2.3	47.8	45.7	1.8	44.3	4 26
1188	5.3	46.7	2.3	48.2	45.7	1.8	44.3	5 1
277	3.7	46.0	2.3	47.5	45.7	1.8	44.3	5 7
1200	5.0	42.2	2.4	43.5	45.8	1.6	44.3	5 43
326	4.2	42.9	2.4	44.2	45.8	1.7	44.3	6 40
379	3.6	45.6	2.3	47.0	45.8	1.7	44.4	7 57
1308	5.5	47.5	2.3	49.0	45.6	1.8	44.3	9 42
473	5.2	42.3	2.4	43.6	45.7	1.6	44.3	10 32
507	4.5	44.2	2.4	45.6	45.8	1.7	44.3	11 40
513	2.8	42.2	2.4	43.5	45.7	1.6	44.2	11 52
591	3.9	47.7	2.2	49.2	45.7	1.8	44.4	13 42
584	4.3	42.7	2.4	44.1	45.7	1.7	44.2	13 45
1421	5.3	45.1	2.3	46.5	45.8	1.7	44.4	13 59
1454	5.2	43.0	2.4	44.4	45.7	1.7	44.2	15 16
1469	4.7	45.6	2.3	47.1	45.7	1.7	44.3	15 50
1491	4.4	42.8	2.4	44.2	45.7	1.7	44.2	16 43
1513	4.5	44.3	2.4	45.7	45.6	1.7	44.2	17 34
743	3.8	42.4	2.4	43.7	45.8	1.6	44.3	17 44
774	3.9	47.4	2.3	48.9	45.7	1.8	44.3	18 26
1541	4.5	46.9	2.3	48.4	45.6	1.8	44.3	18 34
898	5.2	41.1	2.4	42.5	45.7	1.6	44.2	21 52
1020	5.2	45.5	2.3	47.0	45.7	1.7	44.3	22 39

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. I	L. S. T	
		LAT-16	A	LAT-14	B		LAT-14	HRS MIN
106	3.4	132.1	-1.0	133.6	44.3	1.8	45.7	0 6
119	4.3	136.4	-1.1	137.8	44.3	1.8	45.8	0 34
130	4.6	132.1	-1.0	133.6	44.3	1.8	45.7	0 45
155	3.8	135.2	-1.1	136.5	44.4	1.7	45.8	1 26
1129	4.5	134.5	-1.1	135.9	44.3	1.7	45.7	1 52
229	4.3	136.0	-1.1	137.3	44.2	1.7	45.7	3 13
252	3.2	136.5	-1.1	137.8	44.3	1.6	45.8	3 52
1184	5.3	135.1	-1.1	136.5	44.4	1.7	45.8	4 16
1194	3.3	136.6	-1.1	138.1	44.3	1.6	45.7	4 44
301	3.8	132.3	-1.0	133.8	44.4	1.8	45.8	5 0
306	2.3	131.5	-1.0	133.0	44.3	1.8	45.6	5 11
324	4.1	136.1	-1.1	137.4	44.4	1.7	45.8	5 51
1234	4.4	133.4	-1.0	134.8	44.2	1.7	45.6	6 10
345	2.2	136.8	-1.1	138.2	44.3	1.6	45.7	6 23
382	4.1	134.7	-1.1	136.1	44.3	1.7	45.7	7 26
1268	5.0	134.0	-1.1	135.4	44.2	1.7	45.6	7 33
415	4.6	134.9	-1.1	136.3	44.2	1.7	45.7	8 12
449	5.3	135.2	-1.1	136.6	44.2	1.7	45.7	9 16
482	4.3	131.6	-1.0	133.1	44.4	1.8	45.7	10 0
538	3.3	135.3	-1.1	136.7	44.2	1.7	45.6	11 2
537	2.7	134.8	-1.1	136.2	44.2	1.7	45.7	11 47
553	3.4	134.7	-1.1	136.1	44.3	1.7	45.7	12 10
552	2.8	136.3	-1.1	137.7	44.3	1.6	45.8	12 12
1402	3.4	132.4	-1.0	133.9	44.3	1.8	45.7	12 20
1413	5.1	134.2	-1.1	135.6	44.2	1.7	45.6	13 10
638	3.4	136.6	-1.1	137.9	44.3	1.6	45.7	14 26
654	2.0	136.3	-1.1	137.6	44.2	1.6	45.7	14 51
666	3.1	131.7	-1.0	133.2	44.4	1.8	45.7	14 54
697	4.7	135.2	-1.1	136.6	44.3	1.7	45.7	15 45
728	4.1	132.6	-1.0	134.1	44.3	1.8	45.6	16 32
1520	4.2	134.5	-1.1	136.0	44.3	1.7	45.7	17 6
1542	5.1	138.0	-1.2	139.3	44.2	1.6	45.7	18 5
802	4.9	132.9	-1.0	134.4	44.3	1.7	45.7	18 29
1591	4.6	131.0	-1.0	132.5	44.3	1.8	45.7	19 12
845	5.5	131.4	-0.9	131.0	44.3	1.8	45.6	19 34
846	4.0	137.1	-1.1	138.5	44.3	1.6	45.8	19 44
1599	5.4	135.4	-0.9	131.9	44.4	1.8	45.7	19 58
1617	4.8	135.8	-1.1	137.2	44.3	1.7	45.7	20 46
12	2.4	135.4	-1.1	136.8	44.2	1.7	45.6	21 39
1031	5.2	134.0	-1.0	135.4	44.3	1.7	45.7	22 18
49	3.4	136.9	-1.1	138.2	44.3	1.6	45.8	22 43
1053	5.0	135.6	-1.1	137.0	44.3	1.7	45.8	23 7
1075	4.1	131.5	-1.0	133.0	44.3	1.8	45.6	23 40

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-14	A	LAT-12	LAT-14	B	LAT-12	HRS MIN
898	5.2	315.4	2.3	314.0	45.7	-1.7	44.3	2 0
1304	4.9	317.4	2.3	316.0	45.8	-1.7	44.4	2 18
66	2.7	318.7	2.4	317.4	45.8	-1.6	44.3	3 55
114	4.5	316.7	2.3	315.3	45.7	-1.7	44.2	5 16
164	3.6	315.7	2.3	314.3	45.7	-1.7	44.2	6 35
162	3.9	312.6	2.2	311.1	45.7	-1.8	44.4	6 36
1135	5.1	315.1	2.3	313.7	45.6	-1.7	44.2	6 59
1148	5.3	313.5	2.2	312.0	45.6	-1.8	44.2	7 38
218	5.5	312.9	2.2	311.4	45.8	-1.8	44.4	8 0
1173	4.1	317.9	2.3	316.5	45.7	-1.7	44.2	8 31
269	3.9	318.5	2.4	317.1	45.8	-1.6	44.3	9 5
1200	5.0	314.6	2.3	313.1	45.7	-1.6	44.3	9 55
321	5.5	318.3	2.4	316.9	45.8	-1.6	44.3	10 34
326	4.2	313.9	2.2	312.5	45.7	-1.8	44.3	10 55
422	2.6	318.5	2.4	317.2	45.8	-1.6	44.3	13 15
1304	4.5	318.0	2.4	316.6	45.8	-1.7	44.3	13 50
473	5.2	314.3	2.2	312.9	45.9	-1.8	44.4	14 45
507	4.5	312.7	2.2	311.2	45.6	-1.8	44.3	16 0
513	2.8	314.5	2.2	313.2	45.7	-1.8	44.3	16 4
526	0.2	316.7	2.3	314.6	45.7	-1.7	44.3	16 22
1378	5.4	315.9	2.3	314.5	45.8	-1.7	44.3	16 33
584	4.3	314.0	2.2	312.5	45.6	-1.8	44.3	17 59
609	3.8	315.7	2.3	314.3	45.8	-1.7	44.3	18 20
1454	5.2	313.7	2.2	312.3	45.6	-1.8	44.3	19 31
703	4.3	318.4	2.4	317.0	45.8	-1.6	44.3	20 47
1491	4.4	313.9	2.2	312.3	45.7	-1.8	44.4	20 58
1513	4.5	312.6	2.2	311.1	45.6	-1.8	44.3	21 54
743	3.8	314.4	2.2	313.0	45.7	-1.8	44.3	21 57
752	3.7	316.1	2.3	314.7	45.8	-1.7	44.4	22 5
804	4.3	316.7	2.3	315.3	45.8	-1.7	44.3	23 27
1570	5.3	315.9	2.3	314.5	45.7	-1.7	44.2	23 44

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-14	A	LAT-12	LAT-14	B	LAT-12	HRS MIN
802	4.9	224.8	-1.2	223.4	44.4	-1.7	45.8	0 2
1581	4.6	226.7	-1.1	225.2	44.3	-1.8	45.7	0 50
845	5.5	227.4	-1.1	225.9	44.4	-1.8	45.7	1 14
1599	5.4	227.3	-1.1	225.8	44.3	-1.8	45.7	1 36
886	4.5	229.4	-1.0	227.9	44.4	-1.8	45.7	2 21
12	2.4	222.2	-1.3	220.9	44.2	-1.6	45.7	3 3
1231	5.2	223.6	-1.2	222.2	44.3	-1.7	45.7	3 47
1253	5.0	222.0	-1.3	220.7	44.3	-1.6	45.8	4 31
1075	4.1	226.2	-1.1	224.8	44.2	-1.7	45.6	5 24
106	3.4	225.5	-1.2	224.1	44.3	-1.7	45.7	5 41
139	4.6	225.6	-1.2	224.2	44.3	-1.7	45.7	6 20
155	3.8	222.3	-1.3	221.0	44.2	-1.6	45.7	6 51
1129	4.5	223.1	-1.2	221.7	44.2	-1.6	45.7	7 19
1178	5.3	229.4	-1.2	227.9	44.4	-1.8	45.7	9 36
1184	5.3	222.5	-1.2	221.1	44.3	-1.6	45.8	9 42
301	3.8	225.3	-1.2	223.9	44.4	-1.7	45.8	10 35
306	2.3	226.7	-1.1	224.7	44.2	-1.7	45.6	10 47
1234	4.4	224.3	-1.2	222.9	44.3	-1.7	45.8	11 41
382	4.1	222.0	-1.3	221.6	44.3	-1.6	45.8	12 53
1268	5.0	223.7	-1.2	222.3	44.3	-1.7	45.8	13 2
1269	5.4	229.4	-1.0	227.9	44.4	-1.8	45.7	13 12
416	4.6	222.7	-1.2	221.4	44.3	-1.6	45.8	13 38
449	5.3	222.4	-1.3	221.1	44.3	-1.6	45.8	14 41
482	4.3	226.1	-1.1	224.7	44.4	-1.7	45.8	15 37
508	3.3	222.3	-1.3	220.9	44.2	-1.6	45.7	16 26
1373	4.2	229.6	-1.0	228.1	44.4	-1.8	45.7	17 9
537	2.7	222.8	-1.2	221.5	44.2	-1.6	45.7	17 13
552	3.4	222.0	-1.3	221.6	44.3	-1.6	45.8	17 37
1402	3.4	225.2	-1.2	223.8	44.3	-1.7	45.7	18 3
1418	5.1	223.4	-1.2	222.1	44.3	-1.7	45.7	18 38
1439	3.1	220.2	-1.1	227.7	44.3	-1.8	45.6	19 39
660	2.5	227.7	-1.1	226.2	44.4	-1.8	45.7	20 28
666	3.1	225.9	-1.2	224.5	44.3	-1.7	45.7	20 30
697	4.7	222.4	-1.3	221.0	44.2	-1.6	45.7	21 10
718	4.1	229.3	-1.0	227.8	44.3	-1.8	45.6	21 57
728	4.1	225.1	-1.2	223.7	44.2	-1.7	45.7	22 5
1520	4.2	223.0	-1.2	221.7	44.2	-1.6	45.7	22 33
793	5.4	228.1	-1.1	226.7	44.3	-1.8	45.7	23 49

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-14	A	LAT-12	LAT-14	B	LAT-12	HRS MIN
114	4.5	43.3	2.3	44.7	45.7	1.7	44.2	1 5
162	3.9	47.3	2.2	48.6	45.6	1.6	44.3	2 8
164	3.6	44.2	2.3	45.7	45.6	1.7	44.2	2 20
1135	5.1	45.0	2.3	46.4	45.7	1.7	44.3	2 41
1148	5.3	46.5	2.2	48.0	45.6	1.8	44.2	3 14
218	5.5	47.0	2.2	48.5	45.7	1.8	44.3	3 33
1173	4.1	42.3	2.3	43.7	45.8	1.7	44.3	4 24
269	3.9	41.5	2.4	42.8	45.8	1.6	44.3	5 1
1200	5.0	45.4	2.3	46.8	45.7	1.8	44.3	5 35
321	5.5	41.7	2.4	43.1	45.8	1.6	44.3	6 29
326	4.2	46.1	2.2	47.5	45.7	1.8	44.3	6 32
422	2.6	41.5	2.4	42.8	45.8	1.6	44.3	9 11
1304	4.5	42.0	2.4	43.4	45.7	1.7	44.3	9 44
473	5.2	45.5	2.2	47.0	45.6	1.8	44.3	10 24
507	4.5	47.4	2.2	48.9	45.8	1.8	44.4	11 32
513	2.8	45.6	2.2	47.1	45.8	1.8	44.4	11 43
526	0.2	44.2	2.3	45.6	45.8	1.7	44.4	12 7
1378	5.4	44.1	2.3	45.5	45.8	1.7	44.4	12 18
584	4.3	46.2	2.2	47.6	45.7	1.8	44.4	13 36
609	3.8	44.3	2.3	45.7	45.8	1.7	44.4	14 13
1454	5.2	46.4	2.2	47.9	45.8	1.8	44.4	15 7
1491	4.4	46.3	2.2	47.8	45.8	1.8	44.4	16 34
703	4.3	41.5	2.4	42.9	45.7	1.6	44.2	16 43
1513	4.5	47.5	2.2	49.0	45.6	1.8	44.3	17 26
743	3.8	45.6	2.2	47.0	45.7	1.8	44.3	17 36
752	3.7	43.8	2.3	45.2	45.7	1.7	44.3	17 51
804	4.3	43.1	2.3	44.5	45.7	1.7	44.2	19 16
1570	5.3	44.2	2.3	45.6	45.8	1.7	44.3	19 29
898	5.2	44.6	2.3	46.0	45.7	1.7	44.3	21 43
1004	4.9	42.4	2.3	43.8	45.7	1.7	44.2	22 10
66	2.7	41.3	2.4	42.6	45.8	1.6	44.3	23 52

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-14	A	LAT-12	LAT-14	B	LAT-12	HRS MIN
106	3.4	134.5	-1.2	135.9	44.3	1.7	45.7	0 14
139	4.6	134.4	-1.2	135.8	44.3	1.7	45.7	0 52
155	3.8	137.6	-1.3	138.9	44.3	1.6	45.8	1 35
1129	4.5	137.0	-1.2	138.3	44.2	1.6	45.7	2 1
1178	5.3	130.6	-1.1	132.1	44.3	1.8	45.6	3 58
1184	5.3	137.5	-1.3	138.9	44.3	1.6	45.8	4 25
301	3.8	134.6	-1.2	136.0	44.4	1.7	45.8	5 8
306	2.3	133.7	-1.1	135.2	44.4	1.7	45.8	5 18
1234	4.4	135.7	-1.2	137.1	44.3	1.7	45.7	6 18
1269	5.4	130.6	-1.1	132.2	44.3	1.8	45.6	7 34
382	4.1	137.1	-1.2	138.5	44.2	1.6	45.7	7 35
1268	5.0	136.3	-1.2	137.7	44.3	1.7	45.8	7 41
415	4.6	137.3	-1.3	138.7	44.2	1.6	45.7	8 21
449	5.3	137.5	-1.2	138.9	44.3	1.6	45.8	9 24
482	4.3	134.0	-1.1	135.4	44.3	1.7	45.7	10 8
508	3.3	137.6	-1.3	139.0	44.3	1.6	45.8	11 10
1373	4.2	130.4	-1.0	131.9	44.4	1.8	45.7	11 30
537	2.7	137.1	-1.2	138.5	44.3	1.6	45.8	11 55
553	3.4	137.1	-1.2	138.5	44.2	1.6	45.7	12 19
1402	3.4	134.8	-1.2	136.2	44.3	1.7	45.7	12 37
1418	5.1	136.5	-1.2	137.9	44.3	1.7	45.8	13 18
1439	3.1	139.8	-1.1	132.3	44.3	1.8	45.6	14 2
660	2.5	132.3	-1.1	133.7	44.4	1.8	45.8	14 54
666	3.1	134.0	-1.2	135.5	44.3	1.7	45.7	15 2
697	4.7	137.6	-1.3	138.9	44.3	1.6	45.7	15 54
718	4.1	130.6	-1.0	132.1	44.4	1.8	45.7	16 19
728	4.1	134.9	-1.2	136.3	44.2	1.7	45.7	16 40
1520	4.2	137.0	-1.2	138.3	44.2	1.6	45.7	17 15
793	5.4	131.8	-1.1	133.3	44.4	1.8	45.7	18 14
802	4.9	135.2	-1.2	136.6	44.3	1.7	45.8	18 37
1591	4.6	133.3	-1.1	134.8	44.3	1.8	45.6	19 20
845	5.5	132.6	-1.1	134.1	44.4	1.8	45.7	19 41
1599	5.4	132.7	-1.1	134.2	44.3	1.8	45.7	20 4
886	4.5	130.6	-1.0	132.2	44.3	1.8	45.6	20 43
12	2.4	137.7	-1.3	139.0	44.3	1.6	45.8	21 47
1311	5.2	136.5	-1.2	137.8	44.2	1.7	45.7	22 27
1053	5.0	138.3	-1.3	139.3	44.3	1.6	45.8	23 16
1075	4.1	133.7	-1.1	135.2	44.4	1.7	45.8	23 55

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-12	A LAT-10	LAT-12	B LAT-10	HRS	MIN
898	5.2	312.2	2.1	310.7	45.8	-1.8	44.4
1004	4.9	314.2	2.2	312.8	45.7	-1.8	44.4
1132	4.9	315.9	2.2	314.5	45.6	-1.7	44.2
66	2.7	315.5	2.2	314.1	45.6	-1.7	44.2
89	5.4	317.6	2.3	316.3	45.7	-1.7	44.3
1089	5.0	315.8	2.2	314.4	45.8	-1.7	44.4
114	4.5	313.5	2.1	312.1	45.6	-1.8	44.3
1094	5.2	316.0	2.2	314.6	45.8	-1.7	44.4
1112	4.5	318.0	2.3	316.6	45.7	-1.7	44.2
164	3.6	312.6	2.1	311.1	45.7	-1.8	44.3
184	4.7	317.2	2.3	315.8	45.7	-1.7	44.2
211	3.0	316.2	2.2	314.8	45.8	-1.7	44.3
1173	4.1	314.4	2.2	313.0	45.8	-1.8	44.4
269	3.9	315.3	2.2	313.9	45.7	-1.7	44.3
279	3.5	317.8	2.3	316.5	45.8	-1.7	44.3
321	5.5	315.1	2.2	313.7	45.7	-1.8	44.3
1228	4.7	317.0	2.2	315.6	45.8	-1.7	44.3
1239	5.2	318.2	2.3	316.9	45.7	-1.7	44.2
422	2.6	315.3	2.2	313.9	45.7	-1.7	44.3
1304	4.5	314.8	2.2	313.4	45.6	-1.8	44.3
526	0.2	312.9	2.1	311.3	45.7	-1.8	44.4
1378	5.4	312.8	2.1	311.3	45.8	-1.8	44.4
618	2.8	317.0	2.3	315.6	45.7	-1.7	44.3
609	3.8	312.8	2.1	311.3	45.6	-1.8	44.3
690	3.9	317.3	2.3	316.0	45.8	-1.7	44.3
703	4.3	315.2	2.2	313.8	45.6	-1.8	44.2
752	3.7	313.2	2.1	311.7	45.6	-1.8	44.2
1539	4.8	316.2	2.2	314.8	45.7	-1.7	44.3
804	4.3	313.5	2.1	312.1	45.7	-1.8	44.4
1579	5.3	312.7	2.1	311.2	45.6	-1.8	44.3

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-12	A LAT-10	LAT-12	B LAT-10	HRS	MIN
822	3.2	227.7	-1.2	226.2	44.3	-1.8	45.6
1581	4.6	224.3	-1.3	222.9	44.3	-1.7	45.7
845	5.5	225.0	-1.3	223.6	44.4	-1.7	45.8
1599	5.4	228.9	-1.3	223.5	44.3	-1.7	45.7
886	4.5	227.1	-1.2	225.5	44.2	-1.8	45.6
1075	4.1	223.8	-1.3	222.4	44.3	-1.7	45.7
106	3.4	223.0	-1.3	221.6	44.2	-1.7	45.7
130	4.6	223.1	-1.3	221.7	44.2	-1.7	45.7
1130	5.1	228.2	-1.2	226.8	44.4	-1.8	45.7
1178	5.3	227.0	-1.2	225.6	44.3	-1.8	45.7
278	2.7	228.4	-1.2	226.9	44.3	-1.8	45.7
301	3.8	222.8	-1.3	221.5	44.3	-1.6	45.8
306	2.3	223.8	-1.3	222.4	44.3	-1.7	45.7
313	4.4	229.1	-1.2	227.6	44.3	-1.8	45.6
1269	5.4	227.1	-1.2	225.6	44.3	-1.8	45.7
414	4.7	228.4	-1.2	226.9	44.3	-1.8	45.6
482	4.3	223.5	-1.3	222.2	44.3	-1.7	45.7
496	2.9	229.1	-1.2	227.6	44.3	-1.8	45.7
520	2.3	229.6	-1.1	228.1	44.4	-1.8	45.7
1373	4.2	227.2	-1.2	225.8	44.3	-1.8	45.7
1402	3.4	222.7	-1.3	221.3	44.2	-1.6	45.7
1403	4.7	228.8	-1.2	227.3	44.3	-1.8	45.7
599	4.3	228.9	-1.2	227.4	44.4	-1.8	45.8
1439	3.1	226.9	-1.2	225.5	44.3	-1.8	45.7
649	2.9	228.0	-1.2	226.5	44.2	-1.8	45.6
652	1.7	228.4	-1.2	226.9	44.4	-1.8	45.7
660	2.5	225.3	-1.3	223.9	44.3	-1.7	45.7
666	3.1	223.5	-1.3	222.1	44.3	-1.7	45.8
669	3.3	228.4	-1.2	226.9	44.3	-1.8	45.7
683	3.2	228.9	-1.2	227.4	44.4	-1.8	45.8
718	4.1	227.0	-1.2	225.6	44.4	-1.8	45.8
728	4.1	222.7	-1.3	221.3	44.3	-1.6	45.8
790	5.4	225.7	-1.3	224.3	44.3	-1.7	45.7
802	4.9	222.2	-1.4	220.9	44.3	-1.6	45.8

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-12	A LAT-10	LAT-12	B LAT-10	HRS	MIN
89	5.4	42.4	2.3	43.8	45.8	1.7	44.3
114	4.5	46.4	2.1	47.9	45.6	1.8	44.3
1089	5.0	44.0	2.2	45.4	45.7	1.7	44.3
1094	5.2	43.8	2.2	45.2	45.6	1.7	44.2
1112	4.5	42.0	2.3	43.4	45.7	1.7	44.2
164	3.6	47.8	2.1	48.9	45.6	1.8	44.3
184	4.7	43.0	2.2	44.4	45.8	1.7	44.3
211	3.0	43.8	2.2	45.2	45.7	1.7	44.3
1173	4.1	45.5	2.2	46.9	45.7	1.8	44.3
269	3.9	44.7	2.2	46.1	45.6	1.7	44.2
279	3.5	42.1	2.3	43.5	45.8	1.7	44.3
321	5.5	44.9	2.2	46.3	45.7	1.8	44.3
1228	4.7	43.1	2.2	44.5	45.8	1.7	44.4
1239	5.2	41.9	2.3	43.2	45.7	1.7	44.3
422	2.6	44.7	2.2	46.1	45.7	1.7	44.3
1394	4.5	45.2	2.2	46.6	45.6	1.8	44.2
526	0.2	47.1	2.1	48.6	45.6	1.8	44.3
1378	5.4	47.0	2.1	48.5	45.6	1.8	44.2
609	3.8	47.3	2.1	48.8	45.6	1.8	44.3
618	2.8	42.9	2.3	44.3	45.7	1.7	44.2
690	3.9	42.6	2.3	44.0	45.7	1.7	44.3
703	3.3	44.9	2.2	46.4	45.7	1.8	44.3
752	4.7	47.0	2.1	48.5	45.7	1.8	44.4
1539	4.8	43.8	2.2	45.2	45.8	1.7	44.4
804	4.3	46.3	2.2	47.8	45.6	1.8	44.2
1570	5.3	47.2	2.1	48.7	45.6	1.8	44.2
898	5.2	47.8	2.1	49.3	45.7	1.8	44.4
1004	4.9	45.8	2.2	47.2	45.8	1.8	44.4
1032	4.9	44.2	2.2	45.6	45.8	1.7	44.3
66	2.7	44.5	2.2	45.9	45.6	1.7	44.2

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-12	A LAT-10	LAT-12	B LAT-10	HRS	MIN
1075	4.1	136.3	-1.3	137.6	44.2	1.7	45.7
106	3.4	137.0	-1.3	138.4	44.2	1.7	45.7
130	4.6	136.8	-1.3	138.2	44.3	1.7	45.8
1130	5.1	131.8	-1.2	133.3	44.3	1.8	45.7
1178	5.3	132.9	-1.2	134.4	44.3	1.8	45.7
278	2.7	131.6	-1.2	133.1	44.3	1.8	45.7
301	3.8	137.2	-1.3	138.5	44.3	1.8	45.8
306	2.3	136.3	-1.3	137.6	44.2	1.7	45.7
313	4.4	130.9	-1.2	132.4	44.4	1.8	45.7
1269	5.4	133.0	-1.2	134.4	44.3	1.8	45.7
414	4.7	131.6	-1.2	133.0	44.4	1.8	45.7
482	4.3	136.5	-1.3	137.9	44.2	1.7	45.7
496	2.9	130.9	-1.2	132.4	44.3	1.8	45.6
520	2.3	130.4	-1.1	131.9	44.4	1.8	45.7
1373	4.2	132.7	-1.2	134.2	44.4	1.8	45.8
1403	4.7	131.2	-1.2	132.7	44.3	1.8	45.6
1402	3.4	137.3	-1.3	138.6	44.2	1.8	45.7
599	4.3	131.1	-1.2	132.6	44.3	1.8	45.7
1439	3.1	133.1	-1.2	134.5	44.3	1.8	45.7
649	2.8	131.9	-1.2	133.4	44.4	1.8	45.7
652	1.7	131.7	-1.2	133.2	44.3	1.8	45.6
660	2.5	134.7	-1.3	136.1	44.4	1.7	45.8
669	3.3	131.6	-1.2	133.1	44.3	1.8	45.7
666	3.1	136.6	-1.3	137.9	44.2	1.7	45.7
683	3.2	131.2	-1.2	132.6	44.3	1.8	45.7
718	4.1	133.0	-1.2	134.5	44.2	1.8	45.6
728	4.1	137.3	-1.3	138.7	44.3	1.8	45.8
790	5.4	134.2	-1.3	135.6	44.3	1.7	45.7
802	4.9	137.8	-1.4	139.1	44.3	1.8	45.8
822	3.2	132.2	-1.2	133.7	44.3	1.8	45.7
1581	4.6	135.8	-1.3	137.1	44.3	1.7	45.7
845	5.5	135.0	-1.3	136.4	44.3	1.7	45.8
1599	5.4	135.1	-1.3	136.5	44.3	1.7	45.7
886	4.5	132.9	-1.2	134.4	44.4	1.8	45.8

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-10	A LAT -8	LAT-10	B LAT -8	HRS	MIN	
859	4.1	317.4	2.2	316.1	45.7 -1.7	44.3	0	53
880	4.7	317.9	2.2	316.5	45.7 -1.7	44.2	1	26
881	4.6	317.7	2.2	315.6	45.8 -1.7	44.4	1	33
27	4.3	318.7	2.2	317.4	45.8 -1.6	44.3	2	51
1032	4.9	312.8	2.0	311.3	45.6 -1.8	44.3	3	27
66	2.7	312.4	2.0	310.9	45.7 -1.8	44.3	4	11
74	2.2	317.2	2.2	315.9	45.7 -1.7	44.3	4	14
89	5.4	314.5	2.1	313.1	45.7 -1.8	44.3	4	51
1089	5.0	312.9	2.1	311.5	45.6 -1.8	44.3	5	30
1094	5.2	313.1	2.1	311.6	45.6 -1.8	44.3	5	36
136	3.8	318.5	2.2	317.2	45.8 -1.7	44.3	5	49
139	3.0	318.6	2.2	317.3	45.7 -1.7	44.2	5	51
182	3.8	318.5	2.2	317.2	45.7 -1.7	44.2	5	53
1112	4.5	314.9	2.1	313.4	45.6 -1.8	44.2	6	16
174	4.3	316.3	2.2	314.9	45.9 -1.7	44.1	6	51
184	4.7	313.9	2.1	312.4	45.8 -1.8	44.4	7	17
211	3.0	313.1	2.0	311.6	45.8 -1.8	44.4	7	53
1163	4.3	317.1	2.2	315.7	45.7 -1.7	44.2	8	11
241	3.2	315.7	2.1	314.2	45.7 -1.7	44.3	8	33
1182	5.2	319.0	2.2	317.7	45.7 -1.6	44.2	9	5
269	3.9	312.2	2.0	310.7	45.7 -1.9	44.4	9	21
279	3.5	314.7	2.1	313.3	45.7 -1.8	44.3	9	32
1228	4.7	313.8	2.1	312.4	45.7 -1.8	44.4	10	57
1239	5.2	314.9	2.1	313.5	45.7 -1.8	44.3	11	21
367	3.1	318.1	2.2	316.8	45.8 -1.7	44.3	11	51
384	3.7	317.5	2.2	316.1	45.8 -1.7	44.3	12	23
405	5.1	317.6	2.2	315.6	45.8 -1.7	44.4	12	51
422	2.6	312.2	2.0	310.7	45.7 -1.8	44.4	13	31
1323	4.8	316.1	2.2	314.7	45.7 -1.7	44.3	14	44
518	2.8	313.9	2.1	312.4	45.7 -1.8	44.3	14	48
690	3.9	314.2	2.1	312.8	45.7 -1.8	44.4	20	37
1539	4.8	313.1	2.1	311.6	45.7 -1.8	44.4	22	54
1565	4.9	317.6	2.2	316.3	45.7 -1.7	44.2	23	36

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-10	A LAT -8	LAT-10	B LAT -8	HRS	MIN	
822	3.2	225.2	-1.4	223.8	44.2 -1.7	45.6	0	27
845	5.5	222.3	-1.5	221.0	44.3 -1.6	45.8	0	57
1599	5.4	222.2	-1.5	220.9	44.2 -1.6	45.7	1	19
1601	5.1	224.5	-1.2	223.0	44.4 -1.9	45.7	1	44
886	4.5	224.5	-1.4	223.1	44.2 -1.7	45.7	2	5
6	5.2	228.9	-1.3	227.3	44.3 -1.8	45.6	2	51
143	4.2	227.3	-1.3	225.8	44.4 -1.8	45.7	6	27
1120	5.1	225.7	-1.4	224.3	44.3 -1.7	45.7	7	17
197	4.9	224.4	-1.2	222.9	44.3 -1.9	45.7	7	58
223	3.2	223.7	-1.3	222.5	44.2 -1.8	45.6	8	29
1160	4.4	228.8	-1.3	227.3	44.3 -1.8	45.6	8	37
238	4.5	229.1	-1.2	227.6	44.4 -1.8	45.7	8	57
1178	5.3	224.5	-1.4	223.1	44.3 -1.7	45.7	9	20
278	2.7	225.9	-1.4	224.5	44.2 -1.8	45.7	9	52
290	4.6	229.4	-1.0	227.9	44.4 -1.9	45.7	10	19
313	4.4	226.7	-1.3	225.3	44.3 -1.8	45.7	10	55
356	4.6	227.8	-1.3	226.3	44.3 -1.8	45.6	12	7
377	5.3	228.0	-1.3	226.5	44.3 -1.8	45.7	12	37
1269	5.4	224.5	-1.4	223.1	44.3 -1.7	45.7	12	56
414	4.7	226.3	-1.3	224.6	44.3 -1.8	45.8	13	32
496	2.9	226.7	-1.3	225.3	44.4 -1.8	45.8	15	57
529	2.3	227.2	-1.3	225.7	44.2 -1.8	45.6	16	43
1373	4.2	224.7	-1.4	223.3	44.3 -1.7	45.7	16	53
544	4.1	229.1	-1.3	227.6	44.3 -1.8	45.6	17	23
1403	4.7	226.3	-1.3	224.9	44.2 -1.8	45.6	17	58
566	3.6	227.4	-1.3	225.9	44.4 -1.8	45.7	17	59
599	4.3	226.4	-1.3	225.0	44.3 -1.8	45.7	18	42
1439	3.1	224.4	-1.4	223.0	44.3 -1.7	45.8	19	24
649	2.8	225.6	-1.4	224.2	44.4 -1.7	45.8	20	5
652	1.7	225.9	-1.3	224.5	44.3 -1.8	45.7	20	8
660	2.5	222.7	-1.4	221.3	44.2 -1.7	45.7	20	11
669	3.3	225.9	-1.4	224.5	44.2 -1.8	45.6	20	24
683	3.2	226.4	-1.3	225.0	44.3 -1.8	45.7	21	53
718	4.1	224.4	-1.4	223.0	44.2 -1.7	45.6	21	41
751	4.4	228.0	-1.3	227.3	44.4 -1.8	45.7	22	19
797	5.4	223.2	-1.4	221.9	44.3 -1.7	45.8	23	33

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-10	A LAT -8	LAT-10	B LAT -8	HRS	MIN	
89	5.4	45.5	2.1	47.0	45.7	1.8	44.3	0 24
1089	5.0	47.2	2.0	48.6	45.7	1.8	44.3	0 57
1094	5.2	46.9	2.1	48.4	45.6	1.8	44.3	1 4
136	3.8	41.4	2.2	42.7	45.7	1.7	44.2	1 39
139	3.0	41.5	2.2	42.8	45.8	1.7	44.3	1 41
142	3.8	41.5	2.2	42.8	45.7	1.7	44.2	1 43
1112	4.5	45.1	2.1	46.6	45.6	1.8	44.2	1 51
174	4.3	43.7	2.2	45.1	45.8	1.7	44.4	2 31
184	4.7	46.1	2.1	47.6	45.7	1.8	44.4	2 47
211	3.0	46.9	2.0	48.4	45.7	1.8	44.4	3 20
1163	4.3	42.9	2.2	44.2	45.7	1.7	44.2	3 55
241	3.2	44.2	2.1	45.7	45.6	1.7	44.2	4 11
269	3.9	47.8	2.0	49.3	45.7	1.9	44.3	4 45
1182	5.2	41.0	2.2	42.4	45.7	1.6	44.2	4 57
279	3.5	45.2	2.1	46.7	45.7	1.8	44.3	5 6
1228	4.7	46.2	2.1	47.7	45.8	1.8	44.4	6 27
1239	5.2	45.0	2.1	46.4	45.6	1.8	44.2	6 56
367	3.1	41.8	2.2	43.1	45.7	1.7	44.2	7 39
384	3.7	42.5	2.2	43.9	45.8	1.7	44.3	8 8
405	5.1	42.9	2.2	44.3	45.8	1.7	44.2	8 34
422	2.6	47.8	2.0	49.3	45.7	1.9	44.4	8 55
1323	4.8	43.8	2.2	45.2	45.6	1.7	44.2	10 24
618	2.8	46.1	2.1	47.5	45.6	1.8	44.3	14 15
690	3.9	45.7	2.1	47.2	45.7	1.8	44.3	16 9
1539	4.8	46.8	2.1	48.2	45.6	1.8	44.2	18 22
1565	4.8	42.4	2.2	43.7	45.7	1.7	44.3	19 22
859	4.1	42.6	2.2	44.0	45.7	1.7	44.3	20 38
880	4.7	42.2	2.2	43.6	45.7	1.7	44.2	21 13
881	4.6	42.9	2.2	44.3	45.8	1.7	44.3	21 16
27	4.3	41.2	2.2	42.5	45.7	1.6	44.2	22 42
1032	4.9	47.1	2.1	48.6	45.6	1.8	44.3	22 54
66	2.7	47.6	2.0	49.1	45.7	1.8	44.3	23 36
74	2.2	42.8	2.2	44.2	45.8	1.7	44.3	23 58

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT-10	A LAT -8	LAT-10	B LAT -8	HRS	MIN	
143	4.2	132.8	-1.3	134.3	44.3	1.8	45.6	1 11
1130	5.1	134.3	-1.4	135.7	44.3	1.7	45.7	2 6
197	4.9	130.7	-1.2	132.2	44.3	1.9	45.6	2 36
223	3.2	132.0	-1.3	133.5	44.3	1.8	45.7	3 11
1160	4.4	131.2	-1.3	132.6	44.4	1.8	45.8	3 16
238	4.5	131.0	-1.2	132.5	44.4	1.8	45.7	3 35
1178	5.3	135.4	-1.4	136.8	44.3	1.7	45.8	4 13
278	2.7	134.1	-1.4	135.5	44.2	1.8	45.6	4 41
290	4.6	130.6	-1.2	132.1	44.4	1.9	45.7	4 55
313	4.4	133.4	-1.3	134.8	44.3	1.8	45.6	5 41
356	4.6	132.1	-1.3	133.5	44.4	1.8	45.8	6 49
377	5.3	132.0	-1.3	133.5	44.3	1.8	45.7	7 19
1269	5.4	135.4	-1.4	136.8	44.3	1.7	45.7	7 49
414	4.7	134.0	-1.3	135.5	44.3	1.8	45.7	8 20
496	2.9	133.3	-1.3	134.7	44.4	1.8	45.8	10 42
520	2.3	132.8	-1.3	134.3	44.2	1.8	45.6	11 28
1373	4.2	135.3	-1.4	136.7	44.2	1.7	45.6	11 46
544	4.1	131.0	-1.3	132.4	44.3	1.8	45.6	12 2
566	3.6	132.6	-1.3	134.1	44.4	1.8	45.8	12 42
1403	4.7	133.6	-1.3	135.0	44.4	1.8	45.8	12 45
599	4.3	133.6	-1.3	135.1	44.2	1.8	45.6	13 29
1439	3.1	135.6	-1.4	137.0	44.3	1.7	45.8	14 17
649	2.8	134.4	-1.4	135.8	44.3	1.7	45.7	14 54
652	1.7	134.1	-1.3	135.5	44.4	1.8	45.8	14 56
660	2.5	137.3	-1.4	139.7	44.3	1.7	45.8	15 11
669	3.3	134.1	-1.4	135.5	44.2	1.8	45.6	15 13
683	3.2	133.6	-1.3	135.1	44.2	1.8	45.6	15 40
718	4.1	135.5	-1.4	136.9	44.2	1.7	45.7	16 35
751	4.4	131.3	-1.3	132.7	44.4	1.8	45.7	17 18
797	5.4	136.8	-1.4	138.2	44.2	1.7	45.7	18 31
822	3.2	134.7	-1.4	136.1	44.3	1.7	45.7	19 18
845	5.5	137.7	-1.5	139.0	44.3	1.6	45.8	19 58

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T		
		LAT -9	A	LAT -6	B	LAT -6	HRS	MIN
831	4.0	317.6	2.1	316.3	45.7	-1.7	44.2	0 15
862	3.7	316.2	2.1	314.8	45.7	-1.7	44.3	1 1
859	4.1	314.4	2.0	312.9	45.7	-1.8	44.3	1 1
880	4.7	314.6	2.0	313.1	45.8	-1.8	44.4	1 35
881	4.6	314.0	2.0	312.5	45.8	-1.8	44.4	1 41
1629	4.8	317.1	2.1	315.7	45.8	-1.7	44.3	2 7
27	4.3	315.7	2.1	314.3	45.6	-1.8	44.2	2 59
74	2.2	314.2	2.0	312.6	45.7	-1.8	44.3	4 22
136	3.8	315.5	2.1	314.0	45.7	-1.8	44.3	5 57
139	3.0	315.4	2.0	313.9	45.7	-1.8	44.3	6 0
142	3.8	315.2	2.0	313.8	45.8	-1.8	44.3	6 2
174	4.3	313.3	2.0	311.8	45.8	-1.8	44.4	6 59
1163	4.3	314.0	2.0	312.6	45.7	-1.8	44.3	8 19
241	3.2	312.6	2.0	311.1	45.8	-1.8	44.4	8 41
254	3.2	317.5	2.1	316.1	45.7	-1.7	44.3	8 52
1182	5.2	315.3	2.1	314.4	45.7	-1.8	44.3	9 14
294	3.7	316.2	2.1	314.6	45.7	-1.7	44.2	9 55
367	3.1	315.1	2.1	313.6	45.7	-1.8	44.3	11 59
394	3.7	314.5	2.0	313.0	45.7	-1.8	44.3	12 31
435	5.1	314.0	2.0	312.5	45.8	-1.8	44.4	12 59
1318	4.8	318.0	2.2	317.5	45.8	-1.7	44.3	14 28
1323	4.8	313.1	2.0	311.6	45.7	-1.8	44.3	14 52
522	4.8	317.4	2.1	316.1	45.8	-1.7	44.3	16 19
1396	5.0	317.0	2.1	315.6	45.8	-1.7	44.3	17 17
1440	5.2	316.6	2.1	315.2	45.7	-1.7	44.3	19 2
641	3.2	316.3	2.1	315.5	45.8	-1.7	44.3	19 25
1508	4.6	316.5	2.1	315.1	45.7	-1.7	44.2	21 39
1515	5.5	318.5	2.1	317.2	45.7	-1.7	44.3	21 50
760	5.5	316.5	2.1	315.1	45.6	-1.7	44.2	22 27
1565	4.8	314.6	2.0	313.1	45.6	-1.8	44.2	23 44
923	5.1	318.7	2.1	317.3	45.8	-1.7	44.3	23 59

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T		
		LAT -9	A	LAT -6	B	LAT -6	HRS	MIN
822	3.2	222.6	-1.5	221.3	44.3	-1.7	45.8	0 19
1601	5.1	226.9	-1.4	225.5	44.2	-1.8	45.6	1 36
6	5.2	226.4	-1.4	225.0	44.4	-1.8	45.8	2 44
143	4.2	224.7	-1.5	223.3	44.3	-1.7	45.8	6 19
1121	4.1	228.7	-1.4	226.8	44.3	-1.8	45.6	6 59
1139	5.1	223.0	-1.5	221.7	44.2	-1.7	45.7	7 8
197	4.9	226.9	-1.4	225.5	44.4	-1.8	45.8	7 51
215	2.8	228.2	-1.4	226.8	44.3	-1.8	45.7	8 15
223	3.2	225.5	-1.5	224.1	44.4	-1.7	45.8	8 22
1160	4.4	226.3	-1.4	224.9	44.4	-1.8	45.8	8 30
238	4.5	226.5	-1.4	225.1	44.3	-1.8	45.7	8 49
278	2.7	223.3	-1.5	222.0	44.3	-1.7	45.8	9 44
290	4.6	226.8	-1.4	225.4	44.2	-1.8	45.6	10 10
313	4.4	224.1	-1.5	222.8	44.3	-1.7	45.8	10 47
356	4.6	225.4	-1.5	224.0	44.4	-1.7	45.8	12 0
377	5.3	225.4	-1.5	224.0	44.2	-1.7	45.7	12 29
414	4.7	223.3	-1.5	221.9	44.2	-1.7	45.7	13 23
429	4.9	227.4	-1.4	225.9	44.4	-1.8	45.7	14 14
1331	5.0	228.5	-1.4	227.1	44.3	-1.8	45.7	15 26
496	2.9	224.0	-1.5	222.6	44.2	-1.7	45.7	15 48
520	2.3	224.6	-1.5	223.2	44.2	-1.7	45.7	16 35
544	4.1	226.5	-1.4	225.2	44.3	-1.8	45.7	17 16
1389	5.3	228.7	-1.4	227.2	44.3	-1.8	45.6	17 31
1403	4.7	223.7	-1.5	222.4	44.2	-1.7	45.7	17 50
566	3.6	224.9	-1.5	223.4	44.3	-1.7	45.8	17 51
586	4.1	229.1	-1.3	227.6	44.3	-1.9	45.7	18 27
599	4.3	223.9	-1.5	222.5	44.3	-1.7	45.8	18 34
1431	4.3	227.4	-1.4	225.9	44.4	-1.8	45.8	19 5
624	2.4	227.9	-1.4	226.4	44.2	-1.8	45.6	19 24
649	2.8	222.0	-1.5	221.6	44.2	-1.7	45.7	19 56
652	1.7	223.3	-1.5	222.0	44.3	-1.7	45.8	20 0
669	3.3	223.3	-1.5	222.0	44.3	-1.7	45.7	20 16
683	3.2	223.9	-1.5	222.5	44.3	-1.7	45.8	20 45
689	2.0	227.7	-1.4	226.3	44.3	-1.8	45.7	20 59
751	4.4	226.2	-1.4	224.8	44.3	-1.8	45.7	22 31
1540	5.5	229.2	-1.3	227.7	44.4	-1.9	45.8	23 17

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T		
		LAT -8	A	LAT -6	B	LAT -6	HRS	MIN
136	3.8	44.6	2.0	46.0	45.7	1.8	44.3	1 30
139	3.0	44.5	2.1	46.0	45.7	1.8	44.2	1 32
142	3.8	44.7	2.0	46.2	45.7	1.8	44.3	1 34
174	4.3	46.5	2.0	48.0	45.6	1.8	44.2	2 24
1163	4.3	45.9	2.0	47.4	45.6	1.8	44.2	3 47
241	3.2	47.3	2.0	48.8	45.7	1.8	44.3	4 3
254	3.2	42.6	2.1	44.0	45.8	1.7	44.3	4 33
1182	5.2	44.3	2.1	45.7	45.8	1.8	44.4	4 48
294	3.7	43.9	2.1	45.3	45.7	1.7	44.3	5 31
367	3.1	45.0	2.0	46.5	45.8	1.8	44.4	7 30
384	3.7	45.6	2.0	47.0	45.7	1.8	44.3	8 0
405	5.1	46.0	2.0	47.4	45.7	1.8	44.3	8 26
1318	4.8	41.1	2.2	42.5	45.8	1.8	44.3	10 15
1323	4.8	46.9	2.0	48.4	45.6	1.8	44.3	10 16
522	4.8	42.6	2.1	43.9	45.8	1.7	44.3	12 0
1396	5.0	43.0	2.1	44.4	45.8	1.7	44.3	12 56
1440	5.2	43.4	2.1	44.8	45.7	1.7	44.2	14 40
641	3.2	43.0	2.1	44.4	45.7	1.7	44.3	15 4
1508	4.6	43.6	2.1	45.0	45.8	1.7	44.4	17 16
1515	5.5	41.4	2.1	42.8	45.7	1.7	44.2	17 36
760	5.5	43.7	2.1	45.1	45.8	1.7	44.4	18 4
1565	4.8	45.4	2.0	46.9	45.6	1.8	44.3	19 14
923	5.1	41.4	2.1	42.7	45.8	1.7	44.3	19 45
831	4.0	42.4	2.1	43.8	45.7	1.7	44.3	19 57
859	4.1	45.6	2.0	47.1	45.7	1.8	44.3	20 30
862	3.7	43.8	2.1	45.2	45.7	1.7	44.3	20 27
880	4.7	45.3	2.0	46.7	45.6	1.8	44.2	21 5
881	4.6	46.0	2.0	47.4	45.7	1.8	44.3	21 8
1629	4.8	42.8	2.1	44.1	45.7	1.7	44.2	21 47
27	4.3	44.4	2.1	45.8	45.7	1.8	44.3	22 33
74	2.2	45.8	2.0	47.3	45.7	1.8	44.3	23 50

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D	L.S.T		
		LAT -8	A	LAT -6	B	LAT -6	HRS	MIN
143	4.2	135.4	-1.5	136.8	44.2	1.7	45.7	1 19
1121	4.1	131.7	-1.4	133.2	44.4	1.8	45.7	1 47
1130	5.1	136.9	-1.5	138.2	44.3	1.7	45.8	2 14
197	4.9	133.1	-1.4	134.6	44.3	1.8	45.7	2 43
215	2.8	131.8	-1.4	133.2	44.3	1.8	45.7	3 3
223	3.2	134.6	-1.5	136.0	44.3	1.7	45.7	3 19
1160	4.4	133.7	-1.4	135.1	44.3	1.8	45.7	3 24
238	4.5	133.5	-1.4	135.0	44.2	1.8	45.6	3 43
278	2.7	136.7	-1.5	138.1	44.3	1.7	45.7	4 49
290	4.6	133.1	-1.4	134.6	44.3	1.8	45.7	5 3
313	4.4	135.9	-1.5	137.3	44.3	1.7	45.7	5 49
356	4.6	134.6	-1.5	136.0	44.3	1.7	45.8	6 57
377	5.3	134.6	-1.5	136.0	44.2	1.7	45.7	7 27
414	4.7	136.6	-1.5	138.0	44.3	1.7	45.8	8 20
439	4.9	132.7	-1.4	134.2	44.3	1.8	45.6	9 5
1331	5.0	131.4	-1.4	132.9	44.3	1.8	45.7	10 13
496	2.9	136.0	-1.5	137.4	44.2	1.7	45.7	10 51
520	2.3	135.4	-1.5	136.8	44.2	1.7	45.7	11 36
544	4.1	133.4	-1.4	134.8	44.3	1.8	45.7	12 9
1389	5.3	131.3	-1.4	132.8	44.3	1.8	45.6	12 18
566	3.6	135.2	-1.5	136.6	44.3	1.7	45.8	12 50
1403	4.7	136.3	-1.5	137.7	44.2	1.7	45.7	12 54
586	4.1	130.9	-1.3	132.4	44.4	1.9	45.7	13 12
599	4.3	136.2	-1.5	137.6	44.2	1.7	45.7	13 37
1431	4.3	132.8	-1.4	134.2	44.2	1.8	45.6	13 56
628	2.4	132.0	-1.4	133.5	44.4	1.8	45.7	14 13
649	2.8	137.1	-1.5	138.5	44.2	1.7	45.7	15 3
652	1.7	136.8	-1.5	138.1	44.2	1.7	45.7	15 5
669	3.3	136.7	-1.5	138.0	44.3	1.7	45.7	15 21
689	2.0	132.3	-1.4	133.8	44.3	1.8	45.6	15 48
683	3.2	136.2	-1.5	137.6	44.3	1.7	45.7	15 48
751	4.4	133.8	-1.4	135.3	44.3	1.8	45.7	17 26
1540	5.5	134.9	-1.3	132.4	44.3	1.9	45.6	18 2
822	3.2	137.4	-1.5	138.8	44.2	1.7	45.7	19 27
1621	5.1	133.0	-1.4	134.4	44.4	1.8	45.8	20 28
6	5.2	133.7	-1.4	135.1	44.3	1.8	45.7	21 38

NW. QUADRANT								NE. QUADRANT									
CATNO	MAG	AZIMUTH			Z. D			L. S. T	CATNO	MAG	AZIMUTH			Z. D			L. S. T
		LAT -6	A	LAT -4	LAT -6	B	LAT -4				HRS	MIN	LAT -6	A	LAT -4	LAT -6	
823	5.1	315.7	2.0	314.3	45.6	-1.8	44.2	0 7	94	4.6	41.1	2.1	42.4	45.7	1.7	44.2	0 34
831	4.0	314.6	1.9	313.2	45.6	-1.8	44.3	0 23	100	3.7	41.9	2.1	43.2	45.7	1.7	44.2	0 39
862	3.7	313.2	1.9	311.7	45.7	-1.8	44.4	1 9	136	3.8	47.4	1.9	48.9	45.6	1.9	44.3	1 23
1629	4.8	314.1	1.9	312.7	45.7	-1.8	44.4	2 15	139	3.0	47.5	1.9	49.0	45.7	1.9	44.4	1 25
27	4.3	312.7	1.9	311.2	45.7	-1.9	44.3	3 7	142	3.8	47.5	1.9	49.0	45.6	1.9	44.3	1 27
45	4.7	317.9	2.0	316.6	45.8	-1.7	44.3	3 29	1158	4.5	41.1	2.1	42.4	45.7	1.7	44.2	3 44
94	4.6	318.9	2.1	317.5	45.8	-1.7	44.3	4 51	254	3.2	45.6	1.9	47.1	45.7	1.8	44.3	4 25
100	3.7	318.1	2.1	316.7	45.7	-1.7	44.3	4 59	1182	5.2	47.1	1.9	48.6	45.6	1.8	44.3	4 41
136	3.8	312.5	1.9	311.0	45.7	-1.9	44.4	6 5	294	3.7	46.9	1.9	48.4	45.7	1.8	44.4	5 23
139	3.0	312.6	1.9	311.1	45.6	-1.9	44.3	6 7	1196	4.2	42.3	2.0	43.7	45.7	1.7	44.2	5 24
142	3.8	312.4	1.9	311.0	45.6	-1.9	44.3	6 9	1207	5.0	42.5	2.0	43.9	45.7	1.7	44.2	5 41
1158	4.5	319.8	2.1	317.4	45.9	-1.7	44.3	8 1	1217	5.2	41.8	2.1	43.1	45.7	1.7	44.3	6 5
254	3.2	314.5	1.9	313.0	45.7	-1.8	44.3	9 0	1244	4.6	43.6	2.0	45.0	45.7	1.7	44.3	7 10
1182	5.2	312.9	1.9	311.3	45.7	-1.8	44.4	9 22	367	3.1	47.8	1.9	49.3	45.7	1.9	44.3	7 23
1196	4.2	317.6	2.0	316.2	45.8	-1.7	44.3	9 46	371	4.1	44.0	2.0	45.4	45.8	1.8	44.4	7 37
294	3.7	313.2	1.9	311.7	45.7	-1.8	44.3	10 3	1318	4.8	44.1	2.0	45.5	45.7	1.8	44.2	10 7
1207	5.0	317.4	2.0	316.0	45.8	-1.7	44.3	10 4	1332	5.1	41.1	2.1	42.5	45.8	1.7	44.3	10 42
1217	5.2	319.2	2.1	316.8	45.8	-1.7	44.3	10 29	522	4.8	45.5	1.9	47.0	45.7	1.8	44.3	11 52
1244	4.6	316.4	2.0	315.0	45.7	-1.7	44.3	11 37	1383	4.9	43.9	2.0	44.4	45.8	1.7	44.3	12 39
371	4.1	316.1	2.0	314.7	45.7	-1.7	44.3	12 6	1396	5.0	46.0	1.9	47.4	45.7	1.8	44.4	12 48
367	3.1	312.3	1.9	310.8	45.6	-1.9	44.3	12 6	557	4.7	42.2	2.0	43.5	45.7	1.7	44.2	12 53
1318	4.8	315.9	2.0	314.5	45.7	-1.8	44.2	14 36	574	2.3	42.7	2.0	44.1	45.7	1.7	44.3	13 22
1332	5.1	318.9	2.1	317.6	45.7	-1.7	44.2	14 59	593	4.2	42.3	2.0	43.7	45.7	1.7	44.2	13 46
522	4.8	314.5	1.9	313.0	45.7	-1.8	44.3	16 27	1440	5.2	46.4	1.9	47.8	45.7	1.8	44.3	14 32
1383	4.9	317.9	2.0	315.6	45.7	-1.7	44.3	16 55	641	3.2	46.0	1.9	47.5	45.6	1.8	44.3	14 56
557	4.7	317.9	2.0	316.5	45.7	-1.7	44.2	17 14	1460	4.5	43.8	2.0	45.2	45.7	1.7	44.2	15 16
1396	5.0	314.0	1.9	312.5	45.8	-1.8	44.4	17 25	1468	5.5	44.0	2.0	45.4	45.7	1.8	44.3	15 40
574	2.3	317.2	2.0	315.9	45.8	-1.7	44.3	17 46	1488	4.9	42.9	2.0	44.3	45.7	1.7	44.2	16 33
593	4.2	317.6	2.0	316.2	45.7	-1.7	44.3	18 8	1509	4.6	46.4	1.9	47.9	45.6	1.8	44.2	17 9
1440	5.2	313.6	1.9	312.1	45.7	-1.8	44.3	19 10	1515	5.5	44.6	2.0	46.1	45.8	1.8	44.4	17 27
641	3.2	313.9	1.9	312.4	45.7	-1.8	44.4	19 33	760	5.5	46.5	1.9	47.9	45.6	1.8	44.2	17 57
1460	4.5	316.2	2.0	314.7	45.7	-1.7	44.3	19 44	823	5.1	44.4	2.0	45.8	45.7	1.8	44.3	19 37
1468	5.5	316.0	2.0	314.6	45.7	-1.8	44.3	20 0	831	4.0	45.4	1.9	46.8	45.7	1.8	44.3	19 49
1488	4.9	317.0	2.0	315.6	45.8	-1.7	44.4	20 58	862	3.7	46.8	1.9	48.3	45.7	1.8	44.4	20 29
1509	4.6	313.5	1.9	312.0	45.7	-1.8	44.3	21 47	1529	4.8	45.8	1.9	47.2	45.7	1.8	44.3	21 39
1515	5.5	315.5	2.0	314.1	45.6	-1.8	44.2	21 59	27	4.3	47.4	1.9	48.9	45.8	1.9	44.4	22 25
760	5.5	313.5	1.9	312.0	45.6	-1.8	44.3	22 35	45	4.7	42.0	2.0	43.4	45.7	1.7	44.3	23 8
SW. QUADRANT								SE. QUADRANT									
CATNO	MAG	AZIMUTH			Z. D			L. S. T	CATNO	MAG	AZIMUTH			Z. D			L. S. T
		LAT -6	A	LAT -4	LAT -6	B	LAT -4				HRS	MIN	LAT -6	A	LAT -4	LAT -6	
914	4.4	227.7	-1.5	225.8	44.3	-1.8	45.7	0 15	101	4.5	131.6	-1.5	133.1	44.4	1.8	45.8	0 15
932	4.6	227.2	-1.5	225.8	44.2	-1.8	45.6	0 39	133	4.9	130.9	-1.4	132.4	44.4	1.9	45.7	1 7
1502	4.4	228.7	-1.5	226.9	44.3	-1.8	45.6	1 3	1121	4.1	134.3	-1.5	135.8	44.3	1.8	45.7	1 55
1601	5.1	224.3	-1.6	222.9	44.2	-1.7	45.7	1 28	197	4.9	135.8	-1.6	137.1	44.3	1.7	45.7	2 51
879	4.5	228.7	-1.5	226.5	44.3	-1.9	45.7	1 50	215	2.8	134.4	-1.6	135.8	44.2	1.8	45.6	3 11
1618	5.3	228.8	-1.4	227.3	44.3	-1.9	45.6	2 13	223	3.2	137.2	-1.6	138.5	44.3	1.7	45.8	3 27
6	5.2	223.6	-1.6	222.2	44.2	-1.7	45.7	2 35	1160	4.4	136.4	-1.6	137.7	44.3	1.7	45.8	3 37
1049	5.3	228.4	-1.5	226.9	44.3	-1.8	45.6	4 14	238	4.5	136.2	-1.6	137.5	44.2	1.7	45.7	3 51
101	4.5	228.3	-1.5	226.9	44.3	-1.8	45.7	5 21	1180	3.8	131.7	-1.5	132.1	44.4	1.8	45.7	4 16
133	4.9	229.2	-1.4	227.7	44.4	-1.9	45.8	6 16	290	4.6	135.8	-1.6	137.2	44.3	1.7	45.7	5 11
1121	4.1	225.7	-1.5	224.3	44.4	-1.8	45.8	6 52	1219	4.9	132.5	-1.5	134.0	44.3	1.8	45.7	6 49
197	4.9	224.2	-1.6	222.8	44.2	-1.7	45.6	7 42	327	3.7	132.8	-1.5	134.2	44.3	1.8	45.6	6 12
215	2.8	225.6	-1.5	224.2	44.3	-1.8	45.7	8 7	356	4.6	137.4	-1.6	138.8	44.2	1.7	45.7	7 6
223	3.2	227.7	-1.6	221.4	44.2	-1.7	45.7	9 13	377	5.3	137.3	-1.6	138.6	44.3	1.7	45.8	7 35
1160	4.4	223.5	-1.6	222.2	44.2	-1.7	45.7	9 21	434	3.7	130.5	-1.4	132.0	44.4	1.9	45.7	8 57
238	4.5	223.9	-1.6	222.5	44.3	-1.7	45.8	9 41	439	4.0	135.4	-1.6	136.7	44.2	1.7	45.7	9 13
1180	3.8	228.7	-1.5	226.8	44.3	-1.8	45.7	9 22	1331	5.0	134.1	-1.5	135.5	44.2	1.8	45.7	10 21
290	4.6	224.2	-1.6	222.8	44.2	-1.7	45.7	10 2	506	4.4	132.5	-1.5	133.9	44.3	1.8	45.7	11 13
1219	4.9	227.5	-1.5	226.0	44.3	-1.8	45.7	11 52	544	4.1	136.0	-1.6	137.4	44.3	1.7	45.8	12 17
327	3.7	227.3	-1.5	225.9	44.3	-1.8	45.7	11 14	1389	5.3	137.8	-1.5	135.2	44.4	1.8	45.8	12 25
356	4.6	222.6	-1.6	221.3	44.3	-1.7	45.7	11 51	586	4.1	133.5	-1.5	134.9	44.3	1.8	45.7	13 20
377	5.3	222.7	-1.6	221.4	44.3	-1.7	45.8	12 21	1431	4.3	135.4	-1.6	136.8	44.2	1.7	45.6	14 4
439	4.9	224.7	-1.6	223.3	44.3	-1.7	45.8	14 6	628	2.4	134.6	-1.6	136.0	44.3	1.8	45.7	14 21
834	3.7	229.5	-1.4	228.0	44.4	-1.9	45.7	14 7	689	2.0	134.8	-1.6	136.2	44.4	1.7	45.8	15 55
1331	5.0	225.9	-1.5	224.5	44.2	-1.8	45.6	15 18	751	4.4	136.5	-1.6	137.8	44.3	1.7	45.7	17 34
506	4.4	227.5	-1.5	226.1	44.3	-1.8	45.7	16 16	1540	5.5	133.4	-1.5	134.9	44.3	1.8	45.7	18 9
5																	

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT -4	A	LAT -2	B		LAT -2	HRS MIN
923	5.1	312.7	1.8	311.3	45.7	-1.9	44.3	0 15
870	2.6	316.4	1.9	315.0	45.8	-1.7	44.4	1 19
1	2.2	318.4	2.0	317.0	45.7	-1.7	44.2	2 19
19	4.5	318.6	2.0	317.3	45.8	-1.7	44.3	2 49
45	4.7	315.0	1.9	313.6	45.7	-1.8	44.3	3 17
94	4.6	315.9	1.9	314.5	45.7	-1.9	44.2	4 59
100	3.7	315.1	1.9	313.7	45.6	-1.8	44.2	5 7
202	1.8	317.5	1.9	316.1	45.8	-1.7	44.3	7 30
1158	4.5	315.8	1.9	314.4	45.7	-1.9	44.3	8 9
282	3.9	316.2	1.9	314.8	45.8	-1.8	44.3	9 41
1195	4.2	314.7	1.9	313.2	45.7	-1.8	44.3	9 54
295	1.2	316.6	1.9	315.2	45.8	-1.7	44.4	10 0
1207	5.0	314.4	1.9	313.0	45.7	-1.8	44.3	10 12
305	5.0	316.3	1.9	314.9	45.6	-1.7	44.2	10 18
1217	5.2	315.3	1.9	313.8	45.7	-1.8	44.3	10 37
328	4.2	318.0	2.0	316.5	45.7	-1.7	44.2	10 58
1244	4.6	313.5	1.8	312.0	45.7	-1.8	44.3	11 45
371	4.1	313.1	1.8	311.7	45.8	-1.8	44.4	12 14
1318	4.8	313.0	1.8	311.5	45.7	-1.8	44.3	13 44
1332	5.1	315.9	1.9	314.4	45.8	-1.8	44.4	15 8
492	4.3	316.4	1.9	315.0	45.8	-1.7	44.3	15 27
1381	4.9	314.1	1.8	312.6	45.7	-1.8	44.3	17 3
557	3.5	314.7	1.9	313.2	45.8	-1.8	44.4	17 23
572	3.7	318.7	2.0	317.4	45.7	-1.7	44.2	17 38
578	2.3	314.3	1.8	312.9	45.8	-1.8	44.4	17 54
593	2.2	314.7	1.9	313.2	45.7	-1.8	44.3	18 16
1461	4.5	313.2	1.8	311.8	45.7	-1.8	44.4	19 52
667	3.5	316.1	1.9	314.7	45.7	-1.7	44.2	20 2
674	3.8	318.9	2.0	317.4	45.7	-1.7	44.3	20 9
1468	5.5	313.1	1.8	311.6	45.7	-1.8	44.4	20 17
691	3.8	317.8	2.0	316.4	45.9	-1.7	44.3	20 20
1488	4.9	314.1	1.8	312.6	45.8	-1.8	44.4	21 6
1498	5.5	317.6	2.0	316.3	45.7	-1.7	44.2	21 19
732	3.2	316.3	1.9	314.9	45.7	-1.7	44.3	21 46
1515	5.5	312.6	1.8	311.1	45.7	-1.9	44.3	22 6
1523	4.7	316.0	1.9	314.6	45.7	-1.8	44.3	22 17
786	5.2	316.6	1.9	315.2	45.6	-1.7	44.2	23 9

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT -4	A	LAT -2	B		LAT -2	HRS MIN
814	4.4	224.6	-1.7	223.2	44.3	-1.7	45.7	0 7
832	4.6	224.5	-1.7	223.1	44.2	-1.7	45.6	0 30
1592	4.4	225.8	-1.6	224.3	44.4	-1.8	45.8	0 56
870	4.5	225.3	-1.7	223.9	44.2	-1.8	45.6	1 42
1618	5.3	226.2	-1.6	224.8	44.4	-1.8	45.8	2 6
1026	5.5	227.0	-1.6	225.6	44.3	-1.8	45.7	3 29
1048	5.3	225.8	-1.6	224.4	44.4	-1.8	45.8	4 7
78	5.2	228.4	-1.5	227.0	44.3	-1.8	45.7	4 42
101	4.5	225.6	-1.6	224.1	44.2	-1.8	45.6	5 13
133	4.9	226.4	-1.6	225.0	44.3	-1.8	45.7	6 9
1121	4.1	222.8	-1.7	221.5	44.2	-1.7	45.7	6 43
170	3.9	228.7	-1.5	227.3	44.3	-1.9	45.6	7 5
215	2.8	222.9	-1.7	221.5	44.3	-1.7	45.8	7 59
1180	3.8	225.6	-1.6	224.2	44.3	-1.8	45.7	9 14
1210	4.9	229.3	-1.5	227.8	44.3	-1.9	45.6	10 23
1219	4.9	224.7	-1.7	223.3	44.3	-1.7	45.7	10 44
327	3.7	224.6	-1.7	223.2	44.3	-1.7	45.7	11 6
392	4.4	228.2	-1.6	226.7	44.4	-1.8	45.7	12 56
434	3.7	226.8	-1.5	225.4	44.2	-1.8	45.6	13 59
1331	5.0	223.2	-1.7	221.8	44.2	-1.7	45.7	15 10
1342	5.4	227.4	-1.6	226.0	44.3	-1.8	45.7	15 44
506	4.4	224.8	-1.7	223.4	44.2	-1.7	45.7	16 8
1389	5.3	223.3	-1.7	222.0	44.2	-1.7	45.7	17 15
1390	5.0	227.4	-1.6	226.0	44.4	-1.8	45.8	17 42
586	4.1	223.7	-1.7	222.3	44.2	-1.7	45.7	18 11
628	2.4	222.5	-1.7	221.2	44.2	-1.7	45.7	19 9
679	3.1	229.2	-1.5	227.7	44.4	-1.9	45.7	20 36
689	2.0	222.4	-1.7	221.0	44.3	-1.7	45.8	20 42
1540	5.5	223.9	-1.7	222.5	44.3	-1.7	45.7	23 1
1550	4.7	225.9	-1.6	224.5	44.4	-1.8	45.8	23 26
801	4.8	226.1	-1.6	224.7	44.4	-1.8	45.8	23 43

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT -4	A	LAT -2	B		LAT -2	HRS MIN
94	4.6	44.2	1.9	45.6	45.8	1.8	44.3	0 25
100	3.7	45.0	1.9	46.4	45.8	1.8	44.4	0 30
202	1.8	42.5	1.9	43.9	45.8	1.7	44.4	3 11
1158	4.5	44.2	1.9	45.6	45.7	1.8	44.3	3 35
282	3.9	43.8	1.9	45.2	45.8	1.8	44.3	5 8
1196	4.2	45.4	1.9	46.9	45.8	1.8	44.4	5 15
295	1.2	43.3	1.9	44.7	45.7	1.7	44.2	5 29
1207	5.0	45.5	1.9	46.9	45.6	1.8	44.2	5 33
305	5.0	43.8	1.9	45.2	45.7	1.7	44.3	5 46
1217	5.2	44.7	1.9	46.1	45.7	1.8	44.2	6 1
328	4.2	42.0	2.0	43.3	45.7	1.7	44.2	6 33
1244	4.6	46.5	1.8	48.0	45.7	1.8	44.3	7 2
371	4.1	46.7	1.8	48.2	45.6	1.8	44.3	7 30
1318	4.8	47.0	1.8	48.5	45.7	1.8	44.3	9 59
1332	5.1	44.1	1.9	45.5	45.7	1.8	44.3	10 34
492	4.3	43.6	1.9	45.0	45.8	1.7	44.3	10 55
1383	4.9	45.9	1.8	47.4	45.7	1.8	44.4	12 22
557	3.7	45.1	1.9	46.6	45.6	1.8	44.2	12 45
578	2.3	45.6	1.9	47.1	45.7	1.8	44.3	13 14
572	3.7	41.3	2.0	42.6	45.7	1.7	44.2	13 16
593	2.2	45.4	1.9	46.9	45.8	1.8	44.4	13 37
1460	4.5	46.7	1.8	48.2	45.7	1.8	44.3	15 8
667	3.5	44.0	1.9	45.4	45.7	1.8	44.3	15 29
1468	5.5	47.0	1.8	48.4	45.8	1.8	44.4	15 32
674	3.8	41.2	2.0	42.6	45.7	1.7	44.2	15 46
681	3.8	42.1	2.0	43.5	45.7	1.7	44.2	15 54
1488	4.9	45.9	1.8	47.3	45.7	1.8	44.3	16 25
1498	5.5	42.5	1.9	43.8	45.8	1.7	44.3	16 52
732	3.2	43.6	1.9	45.0	45.7	1.7	44.3	17 14
1515	5.5	47.4	1.8	48.9	45.6	1.8	44.3	17 20
1523	4.7	43.9	1.9	45.3	45.6	1.8	44.2	17 44
786	5.2	43.5	1.9	44.9	45.7	1.7	44.3	18 38
823	5.1	47.3	1.8	48.8	45.7	1.8	44.4	19 29
870	2.6	43.5	1.9	44.9	45.7	1.7	44.3	20 47
1	2.2	41.8	2.0	43.1	45.8	1.7	44.3	21 55
19	4.5	41.4	2.0	42.7	45.8	1.7	44.3	22 26
45	4.7	44.9	1.9	46.4	45.7	1.8	44.3	23 41

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D	L.S.T	
		LAT -4	A	LAT -2	B		LAT -2	HRS MIN
101	4.5	134.4	-1.6	135.8	44.3	1.8	45.7	0 23
133	4.9	133.6	-1.6	135.0	44.3	1.8	45.7	1 15
1121	4.1	137.1	-1.7	138.4	44.3	1.7	45.8	2 3
170	3.9	131.2	-1.5	132.7	44.4	1.9	45.7	2 4
215	2.8	137.1	-1.7	138.5	44.3	1.7	45.8	3 19
1190	3.8	134.4	-1.6	135.8	44.3	1.8	45.7	4 24
1210	4.9	130.6	-1.5	132.1	44.4	1.9	45.7	5 25
1219	4.9	135.2	-1.7	136.6	44.3	1.7	45.7	5 57
327	3.7	125.5	-1.7	126.9	44.2	1.7	45.7	6 20
392	4.4	131.9	-1.6	133.3	44.3	1.8	45.6	7 57
434	3.7	123.2	-1.6	124.6	44.2	1.8	45.6	9 5
1331	5.0	136.8	-1.7	138.2	44.3	1.7	45.8	10 29
1342	5.4	132.5	-1.6	133.9	44.4	1.8	45.8	10 47
506	4.4	135.2	-1.7	136.6	44.3	1.7	45.7	11 21
1389	5.3	136.7	-1.7	138.0	44.2	1.7	45.7	12 34
1390	5.0	132.6	-1.6	134.0	44.3	1.8	45.7	12 45
586	4.1	136.2	-1.7	137.6	44.3	1.7	45.7	13 28
628	2.4	137.5	-1.7	138.9	44.2	1.7	45.7	14 30
679	3.1	130.8	-1.5	132.3	44.4	1.9	45.7	15 33
689	2.0	137.7	-1.7	139.0	44.3	1.7	45.8	16 4
1540	5.5	136.1	-1.7	137.5	44.3	1.7	45.8	18 17
1550	4.7	134.0	-1.6	135.5	44.4	1.8	45.8	18 30
801	4.8	134.0	-1.6	135.4	44.3	1.8	45.7	18 51
814	4.4	135.5	-1.7	136.9	44.2	1.7	45.7	19 21
832	4.6	135.4	-1.7	136.8	44.3	1.7	45.7	19 44
1592	4.4	134.3	-1.6	135.7	44.3	1.8	45.7	20 5
879	4.5	134.6	-1.6	136.0	44.3	1.8	45.7	20 53
1618	5.3	133.9	-1.6	135.4	44.2	1.8	45.6	21 14
1026	5.5	133.0	-1.6	134.4	44.3	1.8	45.7	22 34

NW. QUADRANT										NE. QUADRANT											
CATNO	MAG	AZIMUTH				Z.D				L.S.T	CATNO	MAG	AZIMUTH				Z.D				L.S.T
		LAT -2	A	LAT	O	LAT -2	B	LAT	O				LAT -2	A	LAT	O	LAT -2	B	LAT	O	
1575	5.0	317.2	1.9	315.8	45.8	-1.7	44.3	0	6		1068	5.4	43.5	1.8	44.9	45.6	1.7	44.2	0	9	
857	3.1	317.2	1.9	315.9	45.8	-1.7	44.3	0	59		94	4.6	46.9	1.7	48.4	45.6	1.8	44.3	0	18	
879	2.6	313.7	1.8	312.2	45.6	-1.8	44.3	1	26		100	3.7	47.7	1.7	49.2	45.6	1.9	44.3	0	23	
1	2.2	315.3	1.8	313.9	45.7	-1.8	44.3	2	28		202	1.8	45.4	1.8	46.8	45.8	1.8	44.4	3	3	
20	3.5	318.5	1.9	317.2	45.7	-1.7	44.2	2	52		1158	4.5	47.0	1.7	48.5	45.7	1.9	44.4	3	27	
19	4.5	315.8	1.8	314.3	45.7	-1.8	44.3	2	57		1168	4.5	43.8	1.8	45.2	45.8	1.8	44.4	3	55	
43	4.7	317.0	1.8	315.6	45.8	-1.7	44.4	3	28		282	3.9	46.7	1.7	48.1	45.8	1.8	44.4	5	0	
45	4.7	312.3	1.7	310.8	45.6	-1.9	44.3	3	44		295	1.2	46.2	1.8	47.6	45.7	1.8	44.3	5	21	
64	3.6	316.2	1.8	314.8	45.8	-1.8	44.3	4	11		305	5.0	46.6	1.7	48.1	45.7	1.8	44.4	5	38	
1068	5.4	316.5	1.8	315.1	45.7	-1.7	44.2	4	45		1217	5.2	47.6	1.7	49.0	45.7	1.9	44.4	5	53	
94	4.6	313.0	1.7	311.6	45.7	-1.8	44.3	5	7		328	4.2	44.8	1.8	46.3	45.6	1.8	44.2	6	25	
100	3.7	312.3	1.7	310.8	45.7	-1.9	44.4	5	15		407	5.4	41.4	1.9	42.8	45.7	1.7	44.2	8	31	
202	1.9	314.6	1.8	313.2	45.8	-1.8	44.4	7	47		1332	5.1	46.9	1.7	48.4	45.7	1.8	44.4	10	26	
1158	4.5	313.0	1.7	311.5	45.7	-1.9	44.4	8	17		492	4.3	46.4	1.7	47.9	45.8	1.8	44.4	10	47	
1168	4.5	316.2	1.8	314.8	45.8	-1.8	44.3	8	33		534	3.8	42.0	1.9	43.4	45.7	1.7	44.2	12	16	
282	3.9	313.5	1.7	312.0	45.6	-1.8	44.2	9	48		1300	4.5	43.2	1.8	44.6	45.8	1.7	44.3	12	16	
295	1.2	313.9	1.8	312.4	45.6	-1.8	44.3	10	7		572	3.7	44.4	1.8	45.8	45.8	1.8	44.3	13	7	
305	5.0	313.5	1.7	312.0	45.6	-1.8	44.3	10	26		638	3.9	41.2	1.9	42.5	45.8	1.7	44.3	14	46	
1217	5.2	312.4	1.7	310.9	45.8	-1.9	44.4	11	45		667	3.5	46.8	1.7	48.3	45.7	1.8	44.4	15	21	
328	4.2	315.2	1.8	313.7	45.6	-1.8	44.2	11	6		674	3.8	44.3	1.8	45.7	45.8	1.8	44.4	15	37	
407	5.4	319.5	1.9	317.1	45.8	-1.7	44.3	12	59		681	3.8	45.0	1.8	46.4	45.6	1.8	44.2	15	46	
1332	5.1	313.1	1.7	311.7	45.6	-1.8	44.3	15	15		1498	5.5	45.3	1.8	46.8	45.7	1.8	44.3	16	44	
492	4.3	313.6	1.7	312.1	45.8	-1.8	44.4	15	35		732	3.2	46.5	1.7	48.0	45.7	1.8	44.4	17	6	
534	3.8	318.0	1.9	316.6	45.7	-1.7	44.2	16	46		1523	4.7	46.8	1.7	48.3	45.7	1.8	44.3	17	36	
1380	4.5	316.9	1.9	315.5	45.7	-1.7	44.2	16	51		1534	4.1	42.3	1.9	43.7	45.7	1.7	44.2	18	13	
572	3.7	315.6	1.8	314.2	45.7	-1.8	44.3	17	47		786	5.2	46.4	1.7	47.8	45.7	1.8	44.3	18	30	
634	3.9	318.8	1.9	317.5	45.7	-1.7	44.3	19	13		797	3.4	42.6	1.9	43.9	45.7	1.7	44.2	18	56	
667	3.5	313.7	1.7	311.8	45.7	-1.8	44.3	20	17		1575	5.0	42.8	1.9	44.2	45.8	1.7	44.3	19	32	
674	3.8	315.7	1.8	314.3	45.8	-1.8	44.4	20	17		857	3.1	42.6	1.9	44.0	45.6	1.7	44.2	20	26	
681	3.8	314.9	1.8	313.5	45.7	-1.8	44.3	20	28		870	2.6	46.4	1.7	47.9	45.7	1.8	44.4	20	39	
1498	5.5	314.6	1.9	313.3	45.6	-1.8	44.2	21	27		1	2.2	44.6	1.8	46.1	45.7	1.8	44.3	21	47	
732	3.2	313.5	1.7	312.0	45.7	-1.8	44.4	21	54		19	4.5	44.2	1.8	45.6	45.7	1.8	44.3	22	18	
1523	4.7	313.1	1.7	311.6	45.7	-1.8	44.4	22	25		20	3.5	41.6	1.9	42.9	45.7	1.7	44.3	22	24	
1534	4.1	317.7	1.9	316.4	45.7	-1.7	44.2	22	44		45	4.7	47.8	1.7	49.3	45.7	1.9	44.4	22	52	
786	5.2	313.7	1.7	312.2	45.6	-1.8	44.3	23	17		43	4.7	42.8	1.9	44.2	45.7	1.7	44.2	22	54	
797	3.4	317.3	1.9	315.0	45.8	-1.7	44.4	23	29		64	3.6	43.8	1.8	45.2	45.8	1.8	44.3	23	33	
SW. QUADRANT										SE. QUADRANT											
CATNO	MAG	AZIMUTH				Z.D				L.S.T	CATNO	MAG	AZIMUTH				Z.D				L.S.T
		LAT -2	A	LAT	O	LAT -2	B	LAT	O				LAT -2	A	LAT	O	LAT -2	B	LAT	O	
1592	4.4	222.8	-1.8	221.4	44.2	-1.7	45.7	0	47		101	4.5	137.3	-1.8	138.7	44.2	1.7	45.7	0	32	
867	1.3	227.5	-1.7	226.1	44.3	-1.8	45.6	1	22		133	4.9	136.4	-1.8	137.7	44.3	1.7	45.7	1	23	
879	4.5	222.5	-1.8	221.2	44.3	-1.7	45.8	1	34		170	3.9	134.0	-1.7	135.4	44.2	1.8	45.7	2	12	
1618	5.3	223.2	-1.9	221.9	44.2	-1.7	45.7	1	57		240	3.1	133.0	-1.7	134.5	44.3	1.8	45.6	3	55	
1026	5.5	224.2	-1.8	222.8	44.3	-1.7	45.7	3	21		268	1.6	131.1	-1.6	132.6	44.3	1.9	45.6	4	36	
35	4.4	228.0	-1.7	226.5	44.3	-1.8	45.6	3	24		1180	3.8	137.2	-1.8	138.5	44.3	1.7	45.8	4	32	
1048	5.3	222.8	-1.8	221.5	44.2	-1.7	45.7	3	58		283	2.4	131.6	-1.6	133.1	44.4	1.8	45.7	4	56	
1055	4.7	228.1	-1.7	226.6	44.3	-1.8	45.6	4	30		1210	4.9	133.4	-1.7	134.8	44.3	1.8	45.7	5	33	
78	5.2	225.6	-1.7	224.2	44.2	-1.8	45.6	4	34		392	4.4	134.5	-1.7	135.9	44.3	1.8	45.8	8	4	
101	4.5	222.8	-1.8	221.4	44.3	-1.7	45.8	5	5		434	3.7	136.0	-1.8	137.3	44.2	1.7	45.7	9	13	
133	4.9	223.6	-1.8	222.3	44.3	-1.7	45.8	6	0		1342	5.4	135.3	-1.7	136.6	44.3	1.7	45.8	10	55	
170	3.9	226.1	-1.7	224.7	44.3	-1.8	45.7	6	58		532	5.0	131.8	-1.6	133.3	44.4	1.8	45.7	12	0	
240	3.1	227.0	-1.7	225.5	44.3	-1.8	45.6	8	44		1399	5.0	135.4	-1.8	136.8	44.3	1.7	45.7	12	53	
1180	3.8	222.8	-1.8	221.5	44.3	-1.7	45.8	9	6		646	4.4	132.7	-1.7	134.1	44.3	1.8	45.6	15	1	
268	1.6	228.9	-1.6	227.4	44.4	-1.9	45.7	9	26		679	3.1	133.6	-1.7	135.1	44.3	1.8	45.7	15	41	
283	2.4	228.3	-1.6	226.8	44.2	-1.9	45.6	9	50		687	2.8	132.6	-1.7	134.0	44.4	1.8	45.7	15	54	
1210	4.9	226.6	-1.7	225.2	44.3	-1.8	45.7	10	21		1557	4.7	137.0	-1.8	138.4	44.2	1.7	45.7	18	43	
392	4.4	225.4	-1.7	224.0	44.3	-1.8	45.7	12	48		801	4.8	136.8	-1.8	138.1	44.3	1.7	45.8	18	59	
434	3.7	224.0	-1.8	222.6	44.2	-1.7	45.7	13	51		1592	4.4	137.3	-1.8	138.6	44.2	1.7	45.7	20	14	
1342	5.4	224.6	-1.8	223.3	44.2	-1.7	45.7	15	36		867	1.3	132.4	-1.7	133.9	44.3	1.8	45.6	20	31	
532	5.0	228.2	-1.6	226.7	44.4	-1.8	45.7	16	54		879	4.5	137.6	-1.8	138.9	44.2	1.7	45.7	21	2	
1399	5.0	224.7	-1.8	223.3	44.3	-1.7	45.8	17	34		1618	5.3	136.7	-1.8	138.1	44.2	1.7	45.7	21	22	
646	4.4	227.3	-1.7	225.8	44.2	-1.8	45.6	19	51		35	4.4	131.9	-1.6	133.4	44.3	1.8	45.7	22	31	
679	3.1	226.4	-1.7	224.9	44.3	-1.8	45.7	20	28		1026	5.5	135.8								

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT	A	LAT	2 LAT	B	LAT	2 HRS	MIN
1575	5.0	314.4	1.7	313.0	45.8	-1.8	44.4	0	14
1590	5.5	318.5	1.8	317.2	45.8	-1.7	44.3	0	46
857	3.1	314.5	1.7	313.0	45.8	-1.8	44.4	1	7
1613	5.5	318.3	1.8	316.9	45.7	-1.7	44.2	1	41
1	2.2	312.7	1.6	311.2	45.6	-1.9	44.3	2	35
20	3.5	315.6	1.7	314.1	45.7	-1.8	44.3	3	1
19	4.5	313.0	1.6	311.5	45.7	-1.9	44.4	3	5
43	4.7	314.2	1.7	312.8	45.8	-1.8	44.4	3	36
64	3.6	313.5	1.7	312.1	45.6	-1.8	44.2	4	18
1068	5.4	313.7	1.7	312.2	45.6	-1.8	44.3	4	53
144	2.9	317.4	1.8	316.0	45.7	-1.7	44.3	6	12
1151	4.9	318.1	1.8	316.7	45.7	-1.7	44.2	7	49
1168	4.5	313.4	1.6	312.0	45.8	-1.8	44.4	8	41
286	4.2	317.4	1.8	316.0	45.8	-1.7	44.3	9	47
287	2.0	317.6	1.8	316.2	45.7	-1.7	44.3	9	52
329	4.2	312.4	1.6	310.9	45.7	-1.9	44.4	11	14
1275	4.8	317.8	1.8	316.5	45.8	-1.7	44.3	12	56
407	5.4	315.7	1.7	314.3	45.7	-1.8	44.3	13	7
534	3.8	315.3	1.7	313.6	45.8	-1.8	44.4	16	55
1380	4.5	314.1	1.7	312.6	45.6	-1.8	44.3	16	59
576	4.2	316.7	1.7	315.3	45.8	-1.7	44.4	17	53
572	3.7	313.0	1.6	311.5	45.6	-1.8	44.3	17	54
1041	5.4	317.2	1.8	315.8	45.8	-1.7	44.4	19	12
634	3.9	316.0	1.7	314.6	45.6	-1.8	44.2	19	21
1456	5.4	318.5	1.8	317.2	45.8	-1.7	44.3	19	37
674	3.8	313.1	1.6	311.6	45.6	-1.8	44.3	20	24
681	3.8	312.3	1.6	310.8	45.6	-1.9	44.3	20	35
713	3.3	318.9	1.8	317.6	45.7	-1.7	44.2	21	14
1534	4.1	314.8	1.7	313.3	45.8	-1.8	44.4	22	53
707	2.4	314.5	1.7	313.1	45.9	-1.8	44.4	23	37

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT	A	LAT	2 LAT	B	LAT	2 HRS	MIN
828	5.4	228.0	-1.7	226.5	44.3	-1.8	45.7	0	37
954	4.2	229.3	-1.7	227.8	44.4	-1.9	45.7	1	6
867	1.3	224.7	-1.8	223.3	44.2	-1.7	45.6	1	14
896	4.6	227.4	-1.8	226.0	44.4	-1.8	45.8	2	11
35	4.4	225.1	-1.8	223.7	44.2	-1.7	45.6	3	16
1555	4.7	225.4	-1.8	224.0	44.4	-1.8	45.8	4	23
78	5.2	222.8	-1.9	221.4	44.3	-1.7	45.7	4	26
170	3.9	223.3	-1.9	221.9	44.3	-1.7	45.8	6	50
240	3.1	224.1	-1.9	222.7	44.2	-1.7	45.7	8	36
268	1.6	226.1	-1.8	224.6	44.2	-1.8	45.6	9	18
1183	3.7	229.0	-1.7	227.5	44.4	-1.8	45.7	9	25
283	2.4	225.6	-1.8	224.2	44.3	-1.8	45.8	9	43
1210	4.9	223.8	-1.9	222.4	44.3	-1.7	45.8	10	13
332	4.2	228.4	-1.7	226.9	44.3	-1.8	45.6	11	14
365	5.0	228.4	-1.7	226.9	44.4	-1.8	45.7	12	8
392	4.4	222.6	-1.9	221.2	44.3	-1.7	45.8	12	40
419	5.1	229.1	-1.7	227.6	44.3	-1.9	45.6	13	30
530	5.0	225.3	-1.8	223.9	44.3	-1.8	45.7	16	46
579	3.8	227.6	-1.8	226.2	44.3	-1.8	45.7	17	59
620	2.9	227.5	-1.7	226.1	44.4	-1.8	45.8	18	58
646	4.4	224.6	-1.9	223.2	44.4	-1.7	45.8	19	44
1064	4.7	228.0	-1.7	226.6	44.3	-1.8	45.6	20	10
679	3.1	223.5	-1.9	222.1	44.3	-1.7	45.7	20	20
687	2.8	224.5	-1.8	223.1	44.2	-1.7	45.7	20	37
1496	3.4	229.3	-1.7	227.8	44.3	-1.8	45.7	21	30
753	4.6	228.2	-1.7	226.8	44.4	-1.8	45.7	22	26

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT	A	LAT	2 LAT	B	LAT	2 HRS	MIN
1068	5.4	46.3	1.7	47.8	45.6	1.8	44.3	0	1
144	2.9	42.5	1.8	43.9	45.7	1.7	44.2	1	34
1151	4.9	41.9	1.8	43.2	45.7	1.7	44.2	3	14
1168	4.5	46.4	1.7	47.9	45.6	1.8	44.3	3	48
286	4.2	42.5	1.8	43.9	45.7	1.7	44.2	5	9
287	2.0	42.3	1.8	43.7	45.7	1.7	44.2	5	15
329	4.2	47.6	1.6	49.1	45.7	1.9	44.4	6	17
1275	4.8	42.2	1.8	43.6	45.8	1.7	44.3	8	19
407	5.4	44.4	1.7	45.8	45.8	1.8	44.3	8	22
534	3.8	45.0	1.7	46.4	45.8	1.8	44.4	12	7
1380	4.5	46.0	1.7	47.5	45.8	1.8	44.4	12	8
572	3.7	47.0	1.6	48.5	45.6	1.8	44.3	13	0
576	4.2	43.2	1.8	44.6	45.7	1.7	44.2	13	12
1441	5.4	42.7	1.8	44.1	45.7	1.7	44.2	14	33
634	3.9	44.0	1.7	45.4	45.6	1.8	44.2	14	38
1456	5.4	41.4	1.8	42.8	45.8	1.7	44.3	15	3
674	3.9	46.9	1.6	48.4	45.6	1.8	44.3	15	30
681	3.8	47.8	1.6	49.3	45.7	1.9	44.4	15	38
713	3.3	41.1	1.8	42.5	45.8	1.7	44.3	16	42
1534	4.1	45.1	1.7	46.5	45.6	1.8	44.2	18	5
797	3.4	45.4	1.7	46.8	45.6	1.8	44.2	18	48
1575	5.0	45.6	1.7	47.0	45.7	1.8	44.4	19	24
1590	5.5	41.5	1.8	42.9	45.8	1.7	44.3	20	12
857	3.1	45.6	1.7	47.0	45.8	1.8	44.4	20	17
1613	5.5	41.9	1.8	43.2	45.8	1.7	44.3	21	6
1	2.2	47.4	1.6	48.9	45.7	1.9	44.4	21	39
19	4.5	47.0	1.6	48.5	45.7	1.9	44.4	22	10
20	3.5	44.3	1.7	45.8	45.6	1.8	44.2	22	16
43	4.7	45.6	1.7	47.1	45.6	1.8	44.2	22	46
64	3.6	46.6	1.6	48.1	45.8	1.8	44.4	23	25

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT	A	LAT	2 LAT	B	LAT	2 HRS	MIN
170	3.9	136.8	-1.9	138.2	44.3	1.7	45.7	2	20
240	3.1	135.9	-1.9	137.3	44.2	1.7	45.7	4	3
1183	3.7	132.0	-1.7	133.5	44.3	1.8	45.7	4	37
268	1.6	133.8	-1.8	135.2	44.4	1.8	45.8	4	37
283	2.4	134.5	-1.8	135.9	44.3	1.8	45.7	5	4
1210	4.9	136.3	-1.9	137.6	44.3	1.7	45.7	5	41
332	4.2	131.6	-1.7	133.1	44.3	1.8	45.7	6	25
366	5.0	131.7	-1.7	133.2	44.3	1.8	45.6	7	19
392	4.4	137.5	-1.9	138.9	44.2	1.7	45.7	8	12
419	5.1	130.7	-1.7	132.2	44.4	1.8	45.7	8	38
532	5.0	134.7	-1.8	136.1	44.3	1.8	45.7	12	8
579	3.8	132.4	-1.8	133.8	44.2	1.8	45.6	12	13
620	2.9	132.6	-1.8	134.0	44.3	1.8	45.6	14	12
646	4.4	135.5	-1.9	136.9	44.2	1.7	45.7	15	9
1464	4.7	131.9	-1.7	133.3	44.4	1.8	45.7	15	22
679	3.1	136.5	-1.9	137.9	44.3	1.7	45.8	15	49
687	2.8	135.4	-1.8	136.8	44.3	1.7	45.8	16	2
1496	3.4	131.7	-1.7	133.1	44.4	1.8	45.7	16	41
753	4.6	131.8	-1.7	133.3	44.4	1.8	45.7	17	37
838	5.4	131.9	-1.7	133.4	44.4	1.8	45.7	19	49
854	4.2	130.8	-1.7	132.3	44.2	1.9	45.6	20	14
867	1.3	135.3	-1.8	136.7	44.2	1.7	45.7	20	39
896	4.6	132.6	-1.8	134.1	44.3	1.8	45.7	21	25
35	4.4	134.8	-1.8	136.2	44.3	1.8	45.7	22	39
1055	4.7	134.7	-1.8	136.1	44.2	1.8	45.6	23	45
78	5.2	137.2	-1.9	138.6	44.3	1.7	45.8	23	58

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 2	A LAT	4 LAT	2 B LAT	4 LAT	2 B LAT	4 LAT	2 B LAT	HRS	MIN
835	4.4	316.8	1.7	315.5	45.7	-1.7	44.2	0	32		
1590	5.5	315.8	1.6	314.4	45.7	-1.8	44.2	0	54		
1613	5.5	315.4	1.6	314.0	45.8	-1.8	44.4	1	50		
18	4.5	317.7	1.7	316.4	45.7	-1.7	44.2	2	57		
20	3.5	313.0	1.6	311.5	45.6	-1.8	44.2	3	8		
79	4.1	318.0	1.7	316.6	45.7	-1.7	44.2	4	37		
144	2.9	314.7	1.6	313.2	45.7	-1.8	44.3	6	20		
181	2.9	316.8	1.7	315.5	45.8	-1.7	44.3	7	19		
1151	4.9	315.2	1.6	313.8	45.8	-1.8	44.4	7	58		
261	3.6	318.3	1.7	316.9	45.8	-1.7	44.3	9	12		
286	4.2	314.7	1.6	313.2	45.7	-1.8	44.3	9	55		
287	2.0	314.9	1.6	313.5	45.7	-1.8	44.3	10	0		
296	5.3	317.5	1.7	316.1	45.7	-1.7	44.2	10	8		
1275	4.8	315.1	1.6	313.7	45.7	-1.8	44.3	13	4		
412	3.9	318.9	1.7	317.6	45.7	-1.7	44.2	13	11		
407	5.4	313.0	1.5	311.5	45.7	-1.8	44.4	13	15		
425	3.7	317.0	1.7	315.6	45.7	-1.7	44.2	13	40		
1300	5.5	316.9	1.7	317.6	45.7	-1.7	44.2	13	59		
1322	5.4	317.3	1.7	315.9	45.7	-1.7	44.3	14	55		
534	3.8	312.5	1.5	311.0	45.7	-1.9	44.3	17	2		
563	3.5	317.3	1.7	315.9	45.7	-1.7	44.3	17	37		
576	4.2	314.1	1.6	312.6	45.6	-1.8	44.2	18	0		
1441	5.4	314.5	1.6	313.0	45.8	-1.8	44.4	19	20		
1446	5.3	317.7	1.7	316.4	45.7	-1.7	44.2	19	22		
634	3.9	313.3	1.6	311.8	45.6	-1.8	44.3	19	29		
1456	5.4	315.8	1.6	314.4	45.7	-1.8	44.3	19	45		
795	3.8	317.2	1.7	315.8	45.8	-1.7	44.3	21	12		
713	3.3	316.0	1.6	314.6	45.8	-1.8	44.3	21	23		
1510	4.9	319.0	1.7	317.7	45.8	-1.7	44.3	21	50		
1534	4.1	312.2	1.5	310.7	45.7	-1.9	44.3	23	0		
780	2.6	318.2	1.7	316.8	45.8	-1.7	44.3	23	6		

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 2	A LAT	4 LAT	2 B LAT	4 LAT	2 B LAT	4 LAT	2 B LAT	HRS	MIN
838	5.4	225.1	-1.9	223.7	44.2	-1.7	45.7	0	29		
854	4.2	226.4	-1.9	225.0	44.3	-1.8	45.7	0	58		
896	4.6	224.5	-1.9	223.1	44.3	-1.7	45.8	2	3		
1055	4.7	222.3	-2.0	221.0	44.2	-1.7	45.7	4	14		
268	1.6	223.1	-2.0	221.8	44.3	-1.7	45.7	9	10		
1183	3.7	225.1	-1.9	223.7	44.3	-1.7	45.7	9	17		
273	2.0	227.9	-1.8	226.4	44.4	-1.8	45.7	9	29		
283	2.4	222.5	-2.0	221.2	44.2	-1.7	45.7	9	34		
332	4.2	225.6	-1.9	224.2	44.4	-1.8	45.8	11	7		
1243	4.9	228.6	-1.8	227.1	44.3	-1.9	45.6	11	43		
366	5.0	225.4	-1.9	224.0	44.3	-1.8	45.7	12	0		
419	5.1	226.4	-1.9	224.9	44.3	-1.8	45.7	13	23		
1305	5.5	227.3	-1.8	225.9	44.3	-1.8	45.7	14	8		
519	3.5	227.5	-1.8	226.0	44.4	-1.8	45.7	16	26		
532	5.0	222.2	-2.0	220.9	44.2	-1.7	45.7	16	37		
1385	5.4	228.5	-1.8	227.0	44.4	-1.8	45.7	17	9		
579	3.8	224.7	-1.9	223.3	44.2	-1.7	45.7	17	51		
592	3.0	228.4	-1.8	226.9	44.4	-1.8	45.7	18	20		
697	3.1	229.3	-1.8	227.8	44.4	-1.9	45.7	18	44		
616	1.2	227.7	-1.8	226.2	44.3	-1.8	45.6	18	49		
620	2.9	224.6	-1.9	223.2	44.3	-1.7	45.8	18	50		
1464	4.7	225.2	-1.9	223.9	44.4	-1.8	45.8	20	3		
1487	3.3	226.6	-1.9	225.1	44.2	-1.8	45.6	21	3		
746	2.1	227.8	-1.8	226.3	44.3	-1.8	45.6	21	15		
1496	3.4	225.3	-1.9	223.9	44.2	-1.8	45.6	21	22		
753	4.6	225.3	-1.9	223.9	44.3	-1.8	45.7	22	18		
1546	4.2	226.7	-1.9	225.3	44.4	-1.8	45.7	23	10		

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 2	A LAT	4 LAT	2 B LAT	4 LAT	2 B LAT	4 LAT	2 B LAT	HRS	MIN
144	2.9	45.3	1.6	46.7	45.6	1.8	44.3	1	26		
181	2.9	43.1	1.7	44.4	45.7	1.7	44.2	2	33		
1151	4.9	44.8	1.6	46.2	45.8	1.8	44.4	3	5		
261	3.6	41.7	1.7	43.1	45.8	1.7	44.3	4	31		
286	4.2	45.3	1.6	46.7	45.6	1.8	44.2	5	1		
287	2.0	45.2	1.6	46.6	45.8	1.8	44.4	5	6		
296	5.3	42.6	1.7	44.0	45.8	1.7	44.3	5	24		
1275	4.8	44.9	1.6	46.4	45.7	1.8	44.3	8	11		
407	5.4	47.0	1.6	48.4	45.6	1.8	44.3	8	15		
412	3.9	41.1	1.7	42.5	45.8	1.7	44.3	8	33		
425	3.7	42.9	1.7	44.3	45.6	1.7	44.2	8	55		
1300	5.5	41.1	1.7	42.4	45.7	1.7	44.2	9	21		
1322	5.4	42.8	1.7	44.2	45.8	1.7	44.3	10	10		
534	3.8	47.5	1.5	49.0	45.7	1.9	44.3	12	0		
563	3.5	42.8	1.7	44.1	45.8	1.7	44.4	12	52		
576	4.2	45.9	1.6	47.4	45.7	1.8	44.3	13	4		
1441	5.4	45.4	1.6	46.9	45.7	1.8	44.3	14	25		
634	3.9	46.7	1.6	48.2	45.7	1.8	44.3	14	30		
1446	5.3	42.4	1.7	43.8	45.8	1.7	44.3	14	39		
1456	5.4	44.2	1.6	45.6	45.7	1.8	44.3	14	55		
705	3.8	42.8	1.7	44.1	45.7	1.7	44.3	16	27		
713	3.3	43.9	1.7	45.3	45.6	1.8	44.2	16	34		
1510	4.9	41.0	1.7	42.3	45.8	1.7	44.3	17	12		
1534	4.1	47.8	1.5	49.3	45.7	1.9	44.4	17	57		
780	2.6	41.8	1.7	43.2	45.7	1.7	44.2	18	25		
835	4.4	43.2	1.7	44.6	45.7	1.7	44.3	19	46		
1590	5.5	44.2	1.6	45.6	45.7	1.8	44.3	20	4		
1613	5.5	44.6	1.6	46.0	45.7	1.8	44.3	20	58		
20	3.5	47.1	1.5	48.6	45.7	1.8	44.3	22	8		
18	4.5	42.4	1.7	43.7	45.8	1.7	44.3	22	14		
79	4.1	42.1	1.7	43.4	45.8	1.7	44.3	23	55		

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D				L. S. T	
		LAT 2	A LAT	4 LAT	2 B LAT	4 LAT	2 B LAT	4 LAT	HRS	MIN	
1183	3.7	135.0	-1.9	136.4	44.3	1.7	45.7	4	45		
268	1.6	136.9	-2.0	138.3	44.2	1.7	45.7	4	46		
273	2.0	132.1	-1.8	133.6	44.4	1.8	45.8	4	46		
283	2.4	137.4	-2.0	138.7	44.3	1.7	45.8	5	12		
332	4.2	134.5	-1.9	135.9	44.2	1.8	45.7	6	33		
1243	4.9	131.4	-1.8	132.8	44.3	1.9	45.7	6	58		
366	5.0	134.4	-1.9	135.8	44.4	1.8	45.8	7	26		
419	5.1	133.7	-1.9	135.1	44.3	1.8	45.7	8	46		
1305	5.5	132.6	-1.8	134.0	44.4	1.8	45.8	9	27		
519	3.5	137.6	-1.8	134.1	44.3	1.8	45.7	11	45		
532	5.0	137.8	-2.0	139.1	44.2	1.7	45.7	12	17		
1385	5.4	131.5	-1.8	133.0	44.4	1.8	45.7	12	24		
579	3.8	135.2	-1.9	136.6	44.4	1.7	45.8	13	20		
592	3.0	131.7	-1.8	133.2	44.2	1.8	45.6	13	36		
697	3.1	131.7	-1.8	132.2	44.4	1.9	45.7	13	56		
616	1.2	132.2	-1.8	133.7	44.3	1.8	45.7	14	7		
620	2.9	135.5	-1.9	136.9	44.2	1.7	45.7	14	20		
1464	4.7	134.8	-1.9	136.2	44.3	1.7	45.7	15	30		
1487	3.3	133.3	-1.9	134.7	44.4	1.8	45.8	16	25		
705	2.1	132.2	-1.8	133.6	44.3	1.8	45.6	16	33		
1496	3.4	134.6	-1.9	136.0	44.3	1.8	45.7	16	49		
753	4.6	134.7	-1.9	136.1	44.3	1.8	45.7	17	45		
1546	4.2	133.4	-1.9	134.8	44.2	1.8	45.6	18	32		
838	5.4	134.9	-1.9	136.3	44.3	1.7	45.7	19	57		
854	4.2	133.6	-1.9	135.0	44.3	1.8	45.7	20	21		
896	4.6	135.5	-1.9	136.9	44.3	1.7	45.7	21	33		
1055	4.7	137.7	-2.0	139.0	44.3	1.7	45.8	23	53		

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 4	A LAT	6 LAT	4	B LAT	6	HRS	MIN
835	4.4	314.2	1.5	312.7	45.6	-1.8	44.3	2	49
1590	5.5	313.1	1.5	311.7	45.7	-1.8	44.3	1	2
1613	5.5	312.9	1.5	311.4	45.6	-1.8	44.3	1	57
18	4.5	314.9	1.5	313.5	45.8	-1.8	44.4	3	6
42	2.4	318.2	1.6	316.9	45.7	-1.7	44.2	3	32
1047	5.5	317.5	1.6	316.1	45.8	-1.7	44.3	4	6
75	3.1	317.1	1.6	315.8	45.7	-1.7	44.3	4	38
79	4.1	315.3	1.5	313.9	45.6	-1.8	44.2	4	45
1070	5.4	319.0	1.6	317.7	45.8	-1.7	44.3	4	53
1082	5.0	317.5	1.6	316.1	45.7	-1.7	44.3	5	23
148	4.1	318.5	1.6	317.1	45.8	-1.7	44.3	6	21
144	2.9	312.2	1.4	310.7	45.6	-1.9	44.3	6	27
158	5.1	316.5	1.6	315.1	45.7	-1.7	44.3	6	46
181	2.9	314.2	1.5	312.7	45.7	-1.8	44.4	7	27
1151	4.9	312.7	1.4	311.2	45.7	-1.9	44.3	8	5
261	3.6	315.6	1.5	314.2	45.7	-1.8	44.3	9	29
286	4.2	312.2	1.4	310.7	45.6	-1.9	44.3	10	2
287	2.0	312.2	1.4	310.7	45.7	-1.9	44.4	10	8
296	5.3	314.8	1.5	313.4	45.6	-1.8	44.2	10	16
352	3.3	316.4	1.6	315.0	45.7	-1.7	44.3	11	47
1275	4.8	312.6	1.4	311.1	45.6	-1.9	44.2	13	11
412	3.9	316.1	1.6	314.7	45.8	-1.7	44.3	13	20
425	3.7	314.4	1.5	313.0	45.6	-1.8	44.3	13	48
1300	5.5	316.1	1.6	314.7	45.8	-1.7	44.4	14	8
1322	5.4	314.6	1.5	313.2	45.7	-1.8	44.3	15	3
1337	5.1	318.9	1.6	317.5	45.7	-1.7	44.2	15	27
1370	4.8	318.2	1.6	316.9	45.8	-1.7	44.3	16	41
563	3.5	314.6	1.5	313.2	45.7	-1.8	44.3	17	45
1044	4.8	318.4	1.6	317.1	45.8	-1.7	44.3	18	18
1441	5.4	312.0	1.4	310.5	45.7	-1.9	44.3	19	27
1446	5.3	314.9	1.5	313.5	45.8	-1.8	44.4	19	31
1456	5.4	313.1	1.5	311.7	45.7	-1.8	44.4	19	51
1477	4.3	319.1	1.6	317.8	45.7	-1.7	44.2	20	41
705	3.8	314.5	1.5	313.1	45.7	-1.8	44.3	21	20
719	5.1	319.2	1.7	317.8	45.7	-1.6	44.2	21	28
713	3.3	313.4	1.5	311.9	45.8	-1.8	44.4	21	31
1510	4.9	316.4	1.6	315.0	45.7	-1.7	44.2	21	58
1521	4.0	317.3	1.6	315.9	45.7	-1.7	44.3	22	21
780	2.6	315.5	1.5	314.1	45.7	-1.8	44.3	23	14
1559	4.4	317.0	1.6	315.6	45.7	-1.7	44.3	23	47

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 4	A LAT	6 LAT	4	B LAT	6	HRS	MIN
1070	5.4	40.9	1.6	42.2	45.7	1.7	44.2	0	9
1082	5.0	42.5	1.6	43.9	45.7	1.7	44.2	0	33
144	2.9	47.9	1.4	49.4	45.7	1.5	44.4	1	18
148	4.1	41.4	1.6	42.8	45.7	1.7	44.2	1	35
158	5.1	43.5	1.6	44.9	45.7	1.7	44.3	1	52
181	2.9	45.7	1.5	47.2	45.6	1.8	44.2	2	25
1151	4.9	47.3	1.4	48.8	45.6	1.5	44.3	2	58
261	3.6	44.4	1.5	45.8	45.7	1.8	44.3	4	23
286	4.2	47.9	1.4	49.4	45.7	1.5	44.4	4	53
287	2.0	47.7	1.4	49.2	45.7	1.9	44.4	4	59
296	5.3	45.3	1.5	46.7	45.7	1.8	44.3	5	16
352	3.3	43.5	1.6	44.9	45.7	1.7	44.2	6	53
1275	4.8	47.4	1.4	48.9	45.6	1.5	44.3	8	4
412	3.9	43.8	1.6	45.2	45.7	1.7	44.2	8	25
425	3.7	45.6	1.5	47.0	45.6	1.8	44.2	8	47
1300	5.5	43.9	1.6	45.3	45.8	1.7	44.4	9	12
1322	5.4	45.5	1.5	46.9	45.7	1.8	44.4	10	2
1337	5.1	41.2	1.6	42.6	45.8	1.7	44.3	10	42
1370	4.8	41.6	1.6	43.0	45.7	1.7	44.2	11	54
563	3.5	45.4	1.5	46.9	45.8	1.8	44.4	12	44
1414	4.8	41.6	1.6	42.9	45.8	1.7	44.3	13	27
1441	5.4	48.1	1.4	49.6	45.7	1.9	44.4	14	17
1446	5.3	45.7	1.5	46.5	45.7	1.8	44.3	14	31
1456	5.4	46.8	1.5	48.3	45.7	1.8	44.3	14	47
1477	4.3	41.0	1.6	42.3	45.8	1.7	44.3	15	57
705	3.8	45.4	1.5	46.9	45.7	1.8	44.3	16	19
713	3.3	46.5	1.5	48.0	45.7	1.8	44.3	16	26
719	5.1	40.9	1.6	42.2	45.7	1.7	44.2	16	45
1510	4.9	43.6	1.6	45.0	45.7	1.7	44.2	17	4
1521	4.0	42.7	1.6	44.1	45.8	1.7	44.3	17	30
780	2.6	44.5	1.5	45.9	45.6	1.8	44.2	18	17
1559	4.4	43.0	1.6	44.4	45.7	1.7	44.3	18	51
835	4.4	45.8	1.5	47.3	45.7	1.8	44.3	19	38
1590	5.5	46.9	1.5	48.4	45.7	1.8	44.4	19	56
1613	5.5	47.2	1.4	48.7	45.8	1.8	44.4	20	50
18	4.5	45.9	1.5	46.5	45.7	1.8	44.3	22	6
42	2.4	41.8	1.6	43.2	45.7	1.7	44.2	22	45
1047	5.5	42.5	1.6	43.8	45.7	1.7	44.3	23	16
75	3.1	42.8	1.6	44.2	45.7	1.7	44.2	23	43
79	4.1	44.7	1.5	46.2	45.7	1.8	44.3	23	47

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 4	A LAT	6 LAT	4	B LAT	6	HRS	MIN
854	4.2	223.4	-2.0	222.0	44.3	-1.7	45.8	0	50
14	5.2	229.3	-1.9	227.8	44.3	-1.9	45.7	2	51
61	5.4	227.0	-1.9	225.5	44.3	-1.8	45.6	4	2
83	5.4	229.2	-1.9	227.7	44.3	-1.9	45.6	4	43
273	2.0	224.9	-2.0	223.5	44.3	-1.7	45.7	9	21
1204	3.5	227.6	-1.9	226.2	44.3	-1.8	45.7	10	7
378	2.9	228.6	-1.9	227.1	44.3	-1.8	45.6	10	27
332	4.2	222.4	-2.1	221.1	44.2	-1.7	45.7	11	58
1243	4.9	225.3	-2.0	224.4	44.4	-1.8	45.8	11	36
366	5.0	222.4	-2.1	221.1	44.3	-1.7	45.8	11	52
419	5.1	223.4	-2.0	222.0	44.3	-1.7	45.8	13	15
1305	5.5	224.3	-2.0	222.9	44.3	-1.7	45.7	14	0
515	5.2	227.6	-1.9	226.1	44.3	-1.8	45.7	16	16
519	3.5	224.5	-2.0	223.1	44.3	-1.7	45.8	16	18
1276	5.4	227.9	-1.9	226.4	44.4	-1.8	45.7	16	43
1385	5.4	225.5	-2.0	224.0	44.3	-1.8	45.7	17	1
556	3.4	226.9	-1.9	225.4	44.3	-1.8	45.6	17	29
592	3.0	225.4	-2.0	224.0	44.3	-1.8	45.7	18	12
607	3.1	226.3	-2.0	224.9	44.3	-1.8	45.7	18	36
616	1.2	224.7	-2.0	223.3	44.2	-1.7	45.7	18	41
644	3.4	227.4	-1.9	225.9	44.3	-1.8	45.7	19	39
1457	4.3	228.8	-1.9	227.3	44.3	-1.9	45.7	19	46
692	2.9	226.5	-2.0	225.0	44.2	-1.8	45.6	20	43
1487	3.3	223.6	-2.0	222.2	44.2	-1.7	45.7	20	55
706	2.1	224.8	-2.0	223.4	44.2	-1.7	45.6	21	7
736	4.7	227.5	-1.9	226.0	44.4	-1.8	45.7	21	54
1546	4.2	221.7	-2.0	220.4	44.3	-1.7	45.8	23	2
779	4.3	226.7	-1.9	225.3	44.3	-1.8	45.7	23	2
791	4.6	227.2	-1.9	225.8	44.4	-1.8	45.7	23	24

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 4	A LAT	6 LAT	4	B LAT	6	HRS	MIN
83	5.4	130.7	-1.9	132.2	44.4	1.9	45.7	0	0
273	2.0	135.1	-2.0	136.5	44.3	1.7	45.8	4	54
1204	3.5	132.4	-1.9	133.9	44.3	1.8	45.6	5	30
308	2.9	131.3	-1.9	132.8	44.4	1.8	45.7	5	46
332	4.2	137.5	-2.1	138.8	44.3	1.7	45.8	6	41
1243	4.9	134.4	-2.0	135.8	44.2	1.8	45.6	7	6
366	5.0	137.6	-2.1	139.0	44.3	1.7	45.8	7	35
419	5.1	136.7	-2.0	138.0	44.3	1.7	45.8	8	54
1305	5.5	135.6	-2.0	137.0	44.4	1.7	45.8	9	35
515	5.2	132.5	-1.9	133.9	44.3	1.8	45.7	11	39
519	3.5	135.6	-2.0	137.0	44.2	1.7	45.7	11	53
1376	5.4	132.2	-1.9	133.7	44.3	1.8	45.6	12	5
1385	5.4	134.5	-2.0	135.9	44.3	1.8	45.7	12	32
556	3.4	133.1	-1.9	134.6	44.2	1.8	45.6	12	46
592	3.0	134.6	-2.0	136.0	44.3	1.8	45.8	13	43
607	3.1	133.7	-2.0	135.1	44.3	1.8	45.7	14	4
616	1.2	135.2	-2.0	136.6	44.3	1.7	45.7	14	15
644	3.4	132.7	-1.9	134.2	44.3	1.8	45.6	15	3
1457	4.3	131.1	-1.9	132.6	44.4	1.9	45.7	15	4
692	2.9	133.4	-2.0	134.9	44.3	1.8	45.7	16	10
1487	3.3	136.5	-2.0	137.8	44.2	1.7	45.7	16	34
706	2.1	135.2	-2.0	136.6	44.2	1.7	45.6	16	41
736	4.7	132.5	-1.9	134.0	44.4	1.8	45.7	17	17
779	4.3	133.3	-1.9	134.7	44.3	1.8	45.7	18	28
1546	4.2	136.4	-2.0	137.9	44.2	1.7	45.7	18	40
791	4.6	132.8	-1.9	134.3	44.4	1.8	45.7	18	48
954	4.2	136.6	-2.0	138.0	44.3	1.7	45.8	20	29
14	5.2	130.8	-1.9	132.3	44.3	1.9	45.6	22	8
61	5.4	132.9	-1.9	134.4	44.3	1.8	45.7	23	27

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 6	A LAT	B LAT	6	B LAT	8	HRS	MIN
1005	4.5	317.4	1.5	316.0	45.7	-1.7	44.3	2	46
18	4.5	312.5	1.3	311.0	45.7	-1.9	44.3	3	13
42	2.4	315.5	1.4	314.1	45.8	-1.8	44.3	3	41
1047	5.5	314.9	1.4	313.5	45.7	-1.8	44.3	4	14
75	3.1	314.6	1.4	313.1	45.7	-1.8	44.3	4	42
79	4.1	312.7	1.4	311.2	45.7	-1.8	44.3	4	53
1070	5.4	316.5	1.5	315.1	45.6	-1.7	44.2	5	1
1082	5.0	314.9	1.4	313.4	45.7	-1.8	44.3	5	31
148	4.1	315.9	1.5	314.5	45.7	-1.7	44.3	6	29
158	5.1	313.9	1.4	312.5	45.7	-1.8	44.3	6	54
1133	5.1	318.7	1.5	317.3	45.8	-1.7	44.3	7	15
261	3.6	313.0	1.4	311.6	45.7	-1.8	44.4	9	28
1199	5.5	318.9	1.5	317.6	45.7	-1.7	44.2	10	11
296	5.3	312.2	1.3	310.7	45.7	-1.9	44.4	10	24
352	3.3	313.8	1.4	312.4	45.7	-1.8	44.4	11	55
360	4.6	317.1	1.5	315.8	45.7	-1.7	44.2	12	2
390	4.4	317.6	1.5	316.3	45.7	-1.7	44.3	12	55
412	3.9	313.6	1.4	312.1	45.8	-1.8	44.4	13	28
1300	5.5	313.7	1.4	312.2	45.6	-1.8	44.2	14	15
1322	5.4	312.2	1.3	310.7	45.6	-1.9	44.3	15	10
1337	5.1	316.1	1.5	314.7	45.7	-1.7	44.3	15	36
502	5.0	318.4	1.5	317.0	45.8	-1.7	44.3	16	1
1370	4.8	315.7	1.4	314.3	45.7	-1.8	44.3	16	49
568	4.5	318.7	1.5	317.3	45.8	-1.7	44.3	17	50
563	3.5	312.2	1.3	310.7	45.6	-1.9	44.3	17	52
1414	4.8	315.9	1.5	314.4	45.7	-1.7	44.3	18	22
1423	4.9	317.2	1.5	315.9	45.7	-1.7	44.2	18	37
1446	5.3	312.5	1.3	311.0	45.7	-1.9	44.3	19	38
643	3.4	317.6	1.5	316.2	45.8	-1.7	44.4	19	43
672	4.0	318.4	1.5	317.1	45.7	-1.7	44.2	20	22
1477	4.3	316.4	1.5	315.0	45.8	-1.7	44.3	20	50
705	3.8	312.1	1.3	310.6	45.6	-1.9	44.3	21	27
719	5.1	316.4	1.5	315.0	45.7	-1.7	44.3	21	37
1510	4.9	313.8	1.4	312.3	45.7	-1.8	44.3	22	6
740	5.0	318.5	1.5	317.1	45.7	-1.7	44.2	22	10
1521	4.0	314.7	1.4	313.3	45.7	-1.8	44.3	22	29
1525	4.8	317.6	1.5	316.2	45.7	-1.7	44.3	22	37
780	2.6	312.9	1.4	311.4	45.7	-1.8	44.4	23	22
1559	4.4	314.4	1.4	313.0	45.7	-1.8	44.3	23	51

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 6	A LAT	B LAT	6	B LAT	8	HRS	MIN
14	5.2	226.2	-2.0	224.8	44.2	-1.8	45.6	2	43
61	5.4	223.0	-2.1	221.5	44.2	-1.7	45.7	3	54
83	5.4	226.3	-2.0	224.9	44.4	-1.8	45.8	4	16
1085	4.2	226.6	-2.0	225.2	44.3	-1.8	45.6	5	16
140	4.3	227.4	-2.0	225.9	44.3	-1.8	45.7	6	2
186	3.3	229.1	-2.0	227.6	44.4	-1.9	45.7	7	24
217	3.8	229.1	-2.0	227.5	44.4	-1.9	45.7	8	3
1165	5.5	228.9	-2.0	227.4	44.3	-1.8	45.6	8	27
249	4.5	228.1	-2.0	226.6	44.4	-1.8	45.8	8	52
270	3.1	226.5	-2.0	225.1	44.4	-1.8	45.8	9	17
288	4.5	229.3	-1.9	227.8	44.4	-1.9	45.7	9	53
1204	3.5	224.6	-2.1	223.2	44.2	-1.7	45.7	9	59
308	2.9	225.7	-2.1	224.3	44.4	-1.8	45.8	10	20
1243	4.9	222.5	-2.2	221.2	44.2	-1.7	45.7	11	27
399	5.3	226.8	-2.0	225.3	44.3	-1.8	45.7	12	48
421	4.5	228.5	-2.0	227.0	44.4	-1.8	45.7	13	29
453	3.2	228.8	-2.0	227.4	44.3	-1.8	45.7	14	28
471	2.8	227.5	-2.0	226.1	44.4	-1.8	45.8	14	50
495	3.3	227.9	-2.0	226.4	44.4	-1.8	45.7	15	35
515	5.2	224.5	-2.1	223.1	44.3	-1.7	45.7	16	8
1376	5.4	224.8	-2.1	223.4	44.3	-1.7	45.8	16	35
556	3.4	223.8	-2.1	222.5	44.3	-1.7	45.7	17	12
594	2.5	228.8	-2.0	227.3	44.4	-1.8	45.7	18	18
607	3.1	223.2	-2.1	221.9	44.3	-1.7	45.8	18	28
644	3.4	224.3	-2.1	222.9	44.3	-1.7	45.7	19	31
1457	4.3	225.8	-2.1	224.3	44.2	-1.8	45.7	19	38
692	2.9	223.4	-2.1	222.0	44.3	-1.7	45.7	20	35
736	4.7	224.4	-2.1	223.0	44.3	-1.7	45.8	21	46
779	4.3	223.7	-2.1	222.3	44.3	-1.7	45.8	22	54
791	4.6	224.1	-2.1	222.8	44.3	-1.7	45.8	23	16
806	3.9	228.8	-2.0	227.3	44.3	-1.8	45.6	23	44

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 6	A LAT	B LAT	6	B LAT	8	HRS	MIN
1070	5.4	43.6	1.5	45.0	45.8	1.7	44.3	0	0
1082	5.0	45.1	1.4	46.5	45.6	1.8	44.2	0	25
148	4.1	44.1	1.5	45.6	45.7	1.7	44.3	1	26
158	5.1	46.1	1.4	47.6	45.7	1.8	44.4	1	44
1133	5.1	41.4	1.5	42.7	45.8	1.7	44.3	2	22
261	3.6	46.9	1.4	48.4	45.7	1.8	44.4	4	15
296	5.3	47.7	1.3	49.2	45.6	1.9	44.3	5	9
1199	5.5	41.0	1.6	42.4	45.7	1.7	44.2	5	20
352	3.3	46.1	1.4	47.6	45.7	1.8	44.3	6	45
360	4.6	42.9	1.5	44.2	45.7	1.7	44.2	7	4
390	4.4	42.4	1.5	43.8	45.8	1.7	44.4	7	58
412	3.9	46.4	1.4	47.8	45.6	1.8	44.3	8	17
1300	5.5	46.3	1.4	47.8	45.6	1.8	44.2	9	5
1322	5.4	47.9	1.3	49.4	45.6	1.9	44.3	9	55
1337	5.1	43.8	1.5	45.2	45.7	1.7	44.3	10	34
502	5.0	41.6	1.5	42.9	45.8	1.7	44.3	11	7
1370	4.8	44.4	1.4	45.8	45.8	1.8	44.3	11	45
563	3.5	47.9	1.3	49.4	45.7	1.9	44.3	12	37
568	4.5	41.2	1.5	42.6	45.7	1.7	44.2	12	58
1414	4.8	44.1	1.5	45.5	45.7	1.7	44.3	13	19
1423	4.9	42.8	1.5	44.2	45.8	1.7	44.3	13	39
1446	5.3	47.5	1.4	49.0	45.6	1.9	44.3	14	24
643	3.4	42.4	1.5	43.7	45.8	1.7	44.3	14	46
672	4.0	41.6	1.5	42.9	45.7	1.7	44.2	15	29
1477	4.3	43.5	1.5	44.9	45.6	1.7	44.2	15	49
705	3.8	48.0	1.3	49.5	45.8	1.9	44.4	16	11
719	5.1	43.6	1.5	45.0	45.7	1.7	44.3	16	36
1510	4.9	46.2	1.4	47.7	45.7	1.8	44.3	16	56
740	5.0	41.5	1.5	42.9	45.7	1.7	44.2	17	17
1521	4.0	45.3	1.4	46.7	45.7	1.8	44.3	17	22
1525	4.8	42.5	1.5	43.8	45.8	1.7	44.3	17	40
780	2.6	47.1	1.4	48.5	45.7	1.8	44.3	18	9
1559	4.4	45.6	1.4	47.1	45.7	1.8	44.3	18	43
1005	4.5	42.5	1.5	43.9	45.7	1.7	44.2	21	49
18	4.5	47.5	1.4	49.0	45.6	1.8	44.3	21	59
42	2.4	44.5	1.4	46.0	45.8	1.8	44.4	22	16
1047	5.5	45.0	1.4	46.5	45.7	1.8	44.3	23	8
75	3.1	45.5	1.4	47.0	45.8	1.8	44.4	23	34
79	4.1	47.3	1.3	48.8	45.7	1.8	44.4	23	39

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 6	A LAT 8	LAT 6	E LAT 8	HRS	MIN		
83	5.4	133.8	-2.0	135.2	44.2	1.8	45.6	0	8
1085	4.2	133.4	-2.0	134.8	44.3	1.8	45.6	0	47
140	4.3	132.7	-2.0	134.1	44.3	1.8	45.7	1	30
196	3.3	130.9	-1.9	132.4	44.4	1.9	45.7	2	45
217	3.8	131.2	-2.0	132.6	44.3	1.8	45.6	3	25
1165	5.5	131.0	-2.0	132.5	44.3	1.9	45.7	3	49
249	4.5	132.0	-2.0	133.5	44.3	1.8	45.7	4	17
270	3.1	133.6	-2.0	135.0	44.3	1.8	45.7	4	48
288	4.5	130.8	-2.0	132.3	44.3	1.9	45.6	5	14
1204	3.5	125.5	-2.1	136.9	44.2	1.7	45.7	5	38
308	2.9	134.4	-2.1	135.8	44.3	1.8	45.7	5	54
1243	4.9	137.4	-2.2	138.8	44.3	1.7	45.8	7	14
399	5.3	133.2	-2.0	134.7	44.3	1.8	45.7	8	18
421	4.5	131.6	-2.0	133.1	44.2	1.8	45.6	8	53
453	3.2	131.1	-2.0	132.6	44.4	1.8	45.7	9	50
471	2.9	132.6	-2.0	134.0	44.3	1.8	45.7	10	17
495	3.3	132.2	-2.0	133.7	44.3	1.8	45.7	11	1
515	5.2	135.5	-2.1	136.9	44.3	1.7	45.7	11	47
1376	5.4	135.3	-2.1	136.7	44.2	1.7	45.6	12	13
556	3.4	136.2	-2.1	137.6	44.2	1.7	45.7	12	54
594	2.5	131.2	-2.0	132.7	44.4	1.8	45.8	13	40
607	3.1	136.8	-2.1	138.1	44.3	1.7	45.8	14	12
644	3.4	135.8	-2.1	137.2	44.2	1.7	45.7	15	11
1457	4.3	134.2	-2.1	135.6	44.3	1.8	45.7	15	12
692	2.9	136.5	-2.1	137.9	44.3	1.7	45.8	16	18
736	4.7	135.6	-2.1	137.0	44.3	1.7	45.8	17	25
779	4.3	136.4	-2.1	137.7	44.3	1.7	45.8	18	36
791	4.6	135.9	-2.1	137.2	44.3	1.7	45.8	18	56
806	3.9	131.2	-2.0	132.7	44.3	1.8	45.6	19	7
14	5.2	133.6	-2.0	135.1	44.4	1.8	45.8	22	15
61	5.4	136.0	-2.1	137.4	44.3	1.7	45.8	23	35

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 8	A LAT 10	LAT 8	B LAT 10	HRS	MIN		
852	4.9	318.5	1.4	317.1	45.8 -1.7	44.3	1	9	
1009	5.2	316.7	1.4	315.3	45.8 -1.7	44.3	2	54	
1005	4.5	314.9	1.3	313.5	45.7 -1.8	44.3	2	54	
33	3.9	317.6	1.4	316.2	45.8 -1.7	44.3	3	28	
42	2.4	313.1	1.3	311.6	45.6 -1.8	44.3	3	48	
1047	5.5	312.4	1.2	310.9	45.7 -1.8	44.4	4	22	
75	3.1	312.0	1.2	310.5	45.7 -1.9	44.4	4	50	
1070	5.4	314.0	1.3	312.5	45.6 -1.8	44.3	5	0	
109	3.7	318.2	1.4	316.9	45.8 -1.7	44.3	5	35	
1082	5.0	312.4	1.2	310.9	45.7 -1.8	44.4	5	39	
148	4.1	313.4	1.3	311.9	45.7 -1.8	44.3	6	37	
1133	5.1	316.2	1.4	314.8	45.7 -1.7	44.2	7	23	
192	4.8	317.7	1.4	316.4	45.8 -1.7	44.3	7	44	
221	4.2	318.8	1.4	317.5	45.8 -1.6	44.3	8	20	
274	5.1	319.2	1.5	317.9	45.7 -1.6	44.2	9	39	
1199	5.5	316.3	1.4	314.9	45.8 -1.7	44.3	10	20	
1237	4.7	317.9	1.4	316.5	45.9 -1.7	44.3	11	37	
360	4.6	314.6	1.3	313.2	45.6 -1.8	44.2	12	10	
390	4.4	315.1	1.3	313.7	45.7 -1.8	44.3	13	3	
1293	4.8	317.5	1.4	316.2	45.7 -1.7	44.2	13	53	
461	5.2	318.9	1.4	317.4	45.8 -1.6	44.3	14	55	
485	2.9	317.7	1.4	316.3	45.7 -1.7	44.3	15	27	
1337	5.1	313.6	1.3	312.2	45.7 -1.8	44.4	15	44	
502	5.0	315.9	1.4	314.5	45.7 -1.7	44.3	16	9	
1370	4.8	313.2	1.3	311.7	45.7 -1.8	44.4	16	57	
535	3.0	317.7	1.4	316.3	45.7 -1.7	44.2	17	3	
568	4.5	316.0	1.4	314.6	45.8 -1.7	44.4	17	59	
1414	4.8	313.3	1.3	311.9	45.7 -1.8	44.4	18	30	
1423	4.9	314.7	1.3	313.3	45.6 -1.8	44.2	18	45	
626	3.6	318.6	1.4	317.3	45.7 -1.7	44.2	19	12	
643	3.4	315.1	1.3	313.7	45.7 -1.8	44.3	19	51	
672	4.0	315.8	1.4	314.4	45.7 -1.7	44.3	20	31	
1477	4.3	313.9	1.3	312.4	45.8 -1.8	44.4	20	58	
699	4.1	318.3	1.4	316.9	45.7 -1.7	44.2	21	7	
719	5.1	313.9	1.3	312.5	45.7 -1.8	44.3	21	45	
724	4.5	317.1	1.4	315.7	45.8 -1.7	44.4	21	49	
740	5.0	315.8	1.4	314.4	45.8 -1.7	44.3	22	10	
1521	4.0	312.2	1.2	310.7	45.8 -1.8	44.4	22	37	
1525	4.8	315.1	1.3	313.7	45.7 -1.8	44.3	22	45	
1558	4.3	319.1	1.5	317.8	45.9 -1.6	44.3	23	45	
1559	4.4	311.9	1.2	310.4	45.7 -1.9	44.4	23	53	

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 8	A LAT 10	LAT 8	B LAT 10	HRS	MIN		
1584	5.4	227.4	-2.1	225.9	44.4 -1.8	45.8	0	35	
849	5.3	229.0	-2.1	227.5	44.4 -1.8	45.7	0	51	
873	3.8	228.1	-2.1	226.6	44.3 -1.8	45.7	1	24	
14	5.2	223.1	-2.2	221.7	44.2 -1.7	45.7	2	35	
1018	5.5	227.1	-2.1	225.7	44.4 -1.8	45.7	3	1	
1043	5.1	227.3	-2.1	225.8	44.4 -1.8	45.8	3	43	
71	4.2	228.2	-2.1	226.9	44.3 -1.8	45.7	4	15	
83	5.4	223.0	-2.2	221.6	44.2 -1.7	45.7	4	27	
102	4.8	228.3	-2.1	226.9	44.3 -1.8	45.6	5	6	
1085	4.2	223.5	-2.2	222.1	44.3 -1.7	45.7	5	8	
1099	4.3	227.3	-2.1	225.9	44.3 -1.8	45.7	5	47	
140	4.3	224.2	-2.2	222.9	44.2 -1.7	45.7	5	54	
161	5.3	229.1	-2.1	227.6	44.3 -1.8	45.6	6	37	
186	3.3	225.9	-2.1	224.5	44.3 -1.8	45.7	7	16	
204	3.5	229.1	-2.0	227.5	44.4 -1.8	45.7	7	45	
217	3.8	225.9	-2.1	224.4	44.3 -1.8	45.7	7	55	
222	3.9	228.7	-2.0	227.2	44.2 -1.8	45.6	8	7	
1165	5.5	226.0	-2.1	224.6	44.4 -1.8	45.8	8	20	
249	4.5	225.0	-2.2	223.6	44.3 -1.7	45.8	8	44	
270	3.1	223.2	-2.2	221.9	44.2 -1.7	45.7	9	8	
288	4.5	226.2	-2.1	224.8	44.2 -1.8	45.6	9	45	
308	2.9	222.4	-2.2	221.1	44.3 -1.6	45.8	10	11	
1247	5.2	228.6	-2.0	227.1	44.4 -1.8	45.7	11	49	
399	3.5	223.5	-2.2	222.3	44.3 -1.7	45.8	12	43	
421	4.5	225.4	-2.1	224.0	44.3 -1.7	45.7	13	21	
453	3.2	225.7	-2.1	224.3	44.2 -1.7	45.7	14	20	
471	2.8	224.4	-2.2	223.0	44.4 -1.7	45.8	14	42	
495	3.1	224.7	-2.2	223.3	44.3 -1.7	45.7	15	27	
594	2.5	225.6	-2.1	224.2	44.3 -1.7	45.7	18	10	
1457	4.3	222.5	-2.2	221.3	44.3 -1.7	45.8	19	30	
1463	4.9	227.2	-2.1	225.8	44.2 -1.8	45.6	19	56	
682	4.0	228.5	-2.1	227.0	44.3 -1.8	45.7	20	20	
710	3.6	228.4	-2.0	226.9	44.4 -1.8	45.7	21	13	
720	3.0	228.5	-2.1	227.0	44.3 -1.8	45.7	21	25	
806	3.9	225.8	-2.1	224.4	44.3 -1.7	45.8	23	37	

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 8	A LAT 10	LAT 8	B LAT 10	HRS	MIN		
1082	5.0	47.6	1.2	49.1	45.7	1.8	44.3	0	17
109	3.7	41.8	1.4	43.1	45.7	1.7	44.3	0	33
148	4.1	46.6	1.3	48.1	45.7	1.8	44.4	1	18
1133	5.1	43.9	1.4	45.3	45.7	1.7	44.3	2	14
192	4.8	42.3	1.4	43.7	45.8	1.7	44.3	2	40
221	4.2	41.2	1.4	42.5	45.8	1.6	44.3	3	20
274	5.1	40.8	1.5	42.2	45.8	1.6	44.3	4	41
1199	5.5	43.7	1.4	45.1	45.7	1.7	44.3	5	11
1237	4.7	42.1	1.4	43.5	45.7	1.7	44.2	6	34
360	4.6	45.4	1.3	46.8	45.6	1.8	44.2	6	56
390	4.4	44.9	1.3	46.4	45.7	1.8	44.3	7	50
1293	4.8	42.5	1.4	43.9	45.7	1.7	44.2	8	46
461	5.2	41.2	1.4	42.5	45.8	1.6	44.3	9	55
485	2.9	42.3	1.4	43.7	45.8	1.7	44.3	10	23
1337	5.1	46.3	1.3	47.8	45.7	1.8	44.3	10	26
502	5.0	44.1	1.4	45.5	45.7	1.7	44.2	10	59
1370	4.8	46.7	1.3	48.2	45.6	1.8	44.2	11	38
535	3.0	42.4	1.4	43.8	45.8	1.8	44.3	11	59
568	4.5	43.9	1.4	45.3	45.7	1.7	44.3	12	49
1414	4.8	46.6	1.3	48.1	45.7	1.8	44.4	13	11
1423	4.9	45.3	1.3	46.8	45.7	1.8	44.3	13	31
626	3.6	41.4	1.4	42.8	45.7	1.7	44.3	14	12
643	3.4	44.9	1.3	46.3	45.7	1.8	44.3	14	38
672	4.0	44.2	1.4	45.6	45.8	1.7	44.3	15	20
1477	4.3	46.1	1.3	47.5	45.6	1.8	44.3	15	41
699	0.1	41.8	1.4	43.2	45.8	1.7	44.3	16	5
719	5.1	46.1	1.3	47.6	45.7	1.8	44.3	16	28
724	4.5	42.8	1.4	44.2	45.7	1.7	44.2	16	43
740	5.0	44.2	1.4	45.6	45.8	1.7	44.4	17	8
1521	4.0	47.6	1.3	49.1	45.6	1.8	44.3	17	15
1525	4.8	45.0	1.3	46.4	45.7	1.8	44.3	17	32
1558	4.4	48.0	1.2	49.5	45.6	1.8	44.3	18	36
1559	4.3	40.9	1.4	42.3	45.8	1.6	44.3	18	47
852	4.9	41.5	1.4	42.8	45.8	1.7	44.3	20	8
1005	4.5	45.2	1.3	46.6	45.8	1.8	44.4	21	40
1009	5.2	43.3	1.4	44.7	45.8	1.7	44.4	21	46
33	3.9	42.3	1.4	43.7	45.7	1.7	44.2	22	24
42	2.4	46.9	1.3	48.4	45.6	1.8	44.3	22	29
1047	5.5	47.5	1.2	49.0	45.7	1.8	44.4	23	0
75	3.1	47.9	1.2	49.4	45.7	1.8	44.4	23	27
1070	5.4	46.1	1.3	47.6	45.8	1.8	44.4	23	52

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 8	A LAT 10	LAT 8	B LAT 10	HRS	MIN		
83	5.4	136.9	-2.2	138.3	44.3	1.7	45.7	0	16
102	4.8	131.6	-2.1	133.1	44.3	1.8	45.7	0	34
1085	4.2	136.5	-2.2	137.9	44.3	1.7	45.7	0	55
1099	4.3	132.8	-2.1	134.2	44.3	1.8	45.7	1	19
140	4.3	135.8	-2.2	137.2	44.3	1.7	45.7	1	39
161	5.3	130.8	-2.0	132.3	44.4	1.8	45.7	2	2
186	3.3	134.0	-2.1	135.4	44.3	1.8	45.7	2	53
204	3.7	131.0	-2.0	132.5	44.4	1.8	45.7	3	10
217	3.8	134.1	-2.1	135.5	44.3	1.8	45.7	3	32
222	3.9	131.1	-2.0	132.6	44.4	1.8	45.8	3	33
1165	5.5	134.2	-2.1	135.6	44.2	1.7	45.6	3	57
249	4.5	135.1	-2.2	136.5	44.2	1.7	45.7	4	25
270	3.1	136.7	-2.2	138.1	44.3	1.7	45.8	4	56
288	4.5	123.7	-2.1	135.2	44.3	1.8	45.7	5	21
308	2.9	137.5	-2.2	138.8	44.3	1.6	45.8	6	2
1247	5.2	131.5	-2.1	133.0	44.3	1.8	45.6	7	16
399	5.3	136.3	-2.2	137.7	44.3	1.7	45.8	8	26
421	4.5	134.6	-2.1	136.0	44.3	1.7	45.8	9	1
453	3.2	134.3	-2.1	135.7	44.3	1.7	45.7	9	58
471	2.9	135.7	-2.2	137.1	44.3	1.7	45.8	10	25
495	3.3	135.3	-2.2	136.7	44.2	1.7	45.7	11	9
594	2.5	134.3	-2.1	135.7	44.3	1.7	45.7	13	48
1457	4.3	137.3	-2.2	138.7	44.3	1.7	45.8	15	20
1463	4.9	132.7	-2.1	134.1	44.3	1.8	45.7	15	28
692	4.7	131.5	-2.0	133.0	44.4	1.8	45.7	15	56
710	3.6	131.6	-2.0	133.1	44.4	1.8	45.8	16	40
720	3.0	131.5	-2.0	133.0	44.4	1.8	45.7	16	52
806	3.9	134.2	-2.1	135.6	44.4	1.7	45.8	19	14
1584	5.4	132.6	-2.1	134.1	44.4	1.8	45.8	20	6
849	5.3	131.0	-2.0	132.5	44.4	1.8	45.7	20	16
873	3.8	132.0	-2.1	133.5	44.3	1.8	45.6	20	53
14	5.2	137.0	-2.2	138.3	44.2	1.7	45.7	22	24
1018	5.5	132.9	-2.1	134.3	44.4	1.8	45.8	22	33
1043	5.1	132.9	-2.1	134.3	44.2	1.8	45.6	23	15
71	4.2	131.7	-2.1	133.2	44.3	1.8	45.7	23	43

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 14	A LAT 16	LAT 14	B LAT 16	HRS	MIN
1558	4.3	312.0	1.0	310.5	45.6 -1.8	44.3	0 10
811	5.1	313.5	1.0	312.0	45.7 -1.8	44.4	0 28
1583	4.6	312.5	1.0	311.0	45.7 -1.8	44.3	1 6
858	5.2	315.6	1.1	314.2	45.8 -1.7	44.4	1 32
869	3.6	316.4	1.1	315.0	45.7 -1.7	44.2	1 48
891	4.3	317.8	1.1	316.5	45.7 -1.6	44.3	2 22
1616	5.5	313.2	1.0	311.7	45.8 -1.8	44.4	2 26
1021	4.4	314.5	1.0	313.0	45.7 -1.7	44.3	3 39
1045	4.2	315.0	1.0	313.6	45.7 -1.7	44.3	4 25
73	2.3	316.4	1.1	315.0	45.7 -1.7	44.3	4 50
111	2.8	314.4	1.0	312.9	45.7 -1.7	44.3	5 57
134	3.9	316.9	1.1	315.5	45.7 -1.7	44.2	6 30
147	3.0	312.9	1.0	311.5	45.7 -1.8	44.3	6 49
183	3.4	318.9	1.1	317.5	45.8 -1.6	44.3	7 44
1137	3.9	314.6	1.0	313.2	45.7 -1.7	44.3	7 51
185	3.3	314.8	1.0	313.4	45.7 -1.7	44.4	7 55
1145	4.9	313.1	1.0	311.7	45.7 -1.8	44.4	9 18
255	5.3	318.5	1.1	317.2	45.8 -1.6	44.3	9 29
274	5.1	312.0	0.9	310.5	45.7 -1.8	44.4	10 4
1191	5.3	314.2	1.0	312.7	45.6 -1.8	44.2	10 13
314	4.4	318.0	1.1	316.6	45.7 -1.6	44.3	11 6
330	4.1	315.9	1.1	314.5	45.6 -1.7	44.2	11 47
346	5.3	318.1	1.1	316.7	45.7 -1.6	44.3	11 57
374	5.2	314.8	1.0	313.4	45.7 -1.7	44.3	12 46
383	3.5	317.6	1.1	316.3	45.7 -1.6	44.3	13 1
386	3.2	315.4	1.1	314.0	45.7 -1.7	44.3	13 10
1282	5.1	313.9	1.0	312.4	45.6 -1.8	44.2	13 49
470	4.3	315.2	1.0	313.8	45.7 -1.7	44.3	15 22
494	4.7	314.1	1.0	312.6	45.6 -1.8	44.2	16 7
1368	5.4	319.1	1.2	317.7	45.8 -1.6	44.3	16 57
555	3.6	313.8	1.0	312.3	45.6 -1.8	44.2	17 52
573	5.2	314.3	1.0	312.9	45.8 -1.7	44.4	18 21
580	5.4	313.7	1.0	312.2	45.6 -1.9	44.2	18 28
1416	4.6	316.9	1.1	315.4	45.9 -1.7	44.4	18 37
621	4.3	316.8	1.1	315.4	45.7 -1.7	44.3	19 20
684	5.4	316.3	1.1	314.9	45.6 -1.7	44.2	21 2
711	4.2	319.1	1.2	317.8	45.7 -1.6	44.2	21 37
765	2.3	313.4	1.0	311.9	45.6 -1.8	44.3	23 13
788	4.0	314.7	1.0	313.3	45.6 -1.7	44.3	23 46
792	3.9	319.9	1.2	317.6	45.7 -1.6	44.2	23 47

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 14	A LAT 16	LAT 14	B LAT 16	HRS	MIN
966	3.5	228.7	-2.3	227.2	44.3 -1.8	45.7	1 6
1621	5.3	223.9	-2.4	222.5	44.3 -1.7	45.8	1 46
965	4.6	225.7	-2.4	224.3	44.3 -1.7	45.7	2 9
22	2.2	224.3	-2.4	223.7	44.2 -1.7	45.7	2 46
50	3.7	228.5	-2.3	227.0	44.3 -1.8	45.7	3 55
1100	5.3	225.4	-2.4	224.0	44.2 -1.7	45.6	5 41
1144	3.3	228.1	-2.3	226.6	44.3 -1.8	45.6	7 23
207	2.7	225.7	-2.4	223.6	44.3 -1.7	45.8	7 37
243	2.0	224.7	-2.4	223.3	44.2 -1.7	45.7	8 26
257	1.6	227.3	-2.3	225.8	44.4 -1.8	45.7	9 54
1212	4.6	224.7	-2.4	222.6	44.3 -1.7	45.8	10 2
311	5.1	229.2	-2.2	227.7	44.4 -1.8	45.8	10 26
373	5.2	222.7	-2.4	221.4	44.2 -1.6	45.7	11 54
389	4.1	227.0	-2.3	225.6	44.2 -1.7	45.6	12 34
410	3.3	228.3	-2.3	226.8	44.3 -1.8	45.6	13 0
1283	4.2	224.2	-2.4	222.8	44.3 -1.7	45.7	13 2
431	4.1	225.5	-2.4	224.1	44.3 -1.7	45.7	13 30
1301	4.9	224.2	-2.4	222.8	44.3 -1.7	45.7	13 47
1309	5.2	226.5	-2.3	225.1	44.3 -1.7	45.7	14 1
457	2.8	225.7	-2.4	224.3	44.2 -1.7	45.7	14 21
465	3.1	227.7	-2.3	226.2	44.2 -1.8	45.6	14 39
1345	4.8	224.3	-2.4	222.9	44.3 -1.7	45.8	15 21
510	5.1	224.6	-2.4	223.2	44.3 -1.7	45.8	15 53
1387	5.3	228.7	-2.3	227.2	44.3 -1.8	45.7	17 2
548	2.9	228.6	-2.3	227.2	44.3 -1.8	45.7	17 2
1419	5.5	227.9	-2.3	226.3	44.4 -1.8	45.8	18 10
624	5.0	225.3	-2.4	223.9	44.3 -1.7	45.7	19 46
722	5.0	222.5	-2.4	221.2	44.2 -1.6	45.7	21 16
727	4.6	228.6	-2.3	227.2	44.4 -1.8	45.7	21 33
1512	5.5	227.8	-2.3	226.4	44.3 -1.8	45.6	21 50
1514	5.1	228.3	-2.3	226.8	44.4 -1.8	45.7	21 53
773	5.3	224.1	-2.4	222.8	44.2 -1.7	45.7	22 42
1552	4.2	226.9	-2.3	225.6	44.3 -1.7	45.7	23 12
1561	4.3	226.9	-2.3	225.6	44.4 -1.7	45.7	23 30
812	3.8	227.1	-2.3	225.6	44.3 -1.7	45.7	23 49
919	3.0	229.1	-2.3	226.6	44.3 -1.8	45.6	23 57

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 14	A LAT 16	LAT 14	B LAT 16	HRS	MIN
111	2.8	45.6	1.0	47.0	45.6	1.7	44.2
134	3.9	43.2	1.1	44.6	45.8	1.7	44.3
187	3.0	47.1	1.0	48.5	45.7	1.8	44.4
1137	3.9	45.4	1.0	46.8	45.7	1.7	44.3
185	3.3	45.2	1.0	46.6	45.8	1.7	44.4
183	3.4	41.2	1.1	42.5	45.8	1.6	44.3
1145	4.9	46.8	1.0	48.3	45.6	1.8	44.3
255	5.3	41.4	1.1	42.8	45.7	1.6	44.2
274	5.1	47.9	0.9	49.4	45.6	1.8	44.3
1191	5.3	45.9	1.0	47.4	45.7	1.8	44.3
314	4.4	42.0	1.1	43.3	45.7	1.6	44.2
339	4.1	44.2	1.1	45.6	45.8	1.7	44.3
346	5.3	41.9	1.1	43.3	45.7	1.6	44.3
374	5.2	45.2	1.0	46.6	45.7	1.7	44.3
383	3.5	42.3	1.1	43.7	45.7	1.6	44.2
386	3.2	44.6	1.0	46.0	45.8	1.7	44.4
1282	5.1	46.2	1.0	47.6	45.7	1.8	44.4
470	4.3	44.7	1.0	46.2	45.7	1.7	44.3
494	4.7	45.9	1.0	47.4	45.7	1.8	44.3
1368	5.4	41.0	1.2	42.3	45.8	1.6	44.3
555	3.6	46.3	1.0	47.7	45.7	1.8	44.3
573	5.2	45.6	1.0	47.0	45.7	1.7	44.3
580	5.4	46.3	1.0	47.8	45.6	1.8	44.3
1416	4.6	43.2	1.1	44.6	45.8	1.7	44.4
621	4.3	43.2	1.1	44.6	45.7	1.7	44.3
684	5.4	43.7	1.1	45.1	45.7	1.7	44.2
711	4.2	41.0	1.2	42.3	45.7	1.6	44.3
765	2.3	46.6	1.0	48.1	45.6	1.8	44.3
788	4.0	45.3	1.0	46.7	45.6	1.7	44.2
792	3.9	41.1	1.2	42.4	45.8	1.6	44.3
1558	4.3	48.0	0.9	49.5	45.7	1.8	44.4
811	5.1	46.4	1.0	47.9	45.6	1.8	44.3
1583	4.6	47.5	1.0	48.9	45.7	1.8	44.4
858	5.2	44.3	1.1	45.8	45.7	1.7	44.3
869	3.6	43.6	1.1	45.0	45.7	1.7	44.2
1616	5.5	46.7	1.0	48.2	45.6	1.8	44.3
891	4.3	42.2	1.1	43.5	45.8	1.6	44.3
1021	4.4	45.5	1.0	46.9	45.6	1.7	44.2
1045	4.2	45.0	1.0	46.4	45.7	1.7	44.3
73	2.3	43.6	1.1	45.0	45.8	1.7	44.4

SE. QUADRANT

CATNO	MAG	AZIMUTH		% E		L.S.T			
		LAT 14	A LAT 16	FAT 14	B LAT 16	HRS	MIN		
1100	5.3	134.4	-2.4	135.8	44.3	1.7	45.8	1	29
1144	3.3	131.9	-2.3	133.4	44.3	1.8	45.6	3	1
207	2.7	135.0	-2.4	136.4	44.3	1.7	45.7	3	27
243	2.0	135.2	-2.4	136.6	44.4	1.7	45.8	4	17
257	1.6	132.8	-2.3	134.3	44.3	1.8	45.7	4	35
1212	4.6	136.0	-2.4	137.4	44.3	1.7	45.8	5	56
311	5.1	130.8	-2.2	132.3	44.4	1.8	45.7	5	59
373	5.2	127.3	-2.4	138.7	44.2	1.6	45.7	7	54
389	4.1	132.9	-2.3	134.3	44.3	1.7	45.7	8	16
410	3.3	131.6	-2.3	133.1	44.3	1.8	45.7	8	37
1283	4.2	135.7	-2.4	137.0	44.4	1.7	45.8	8	55
431	4.1	134.5	-2.4	135.9	44.3	1.7	45.7	9	18
1301	4.9	126.0	-2.4	137.3	44.2	1.7	45.7	9	41
1309	5.2	133.5	-2.3	134.9	44.3	1.7	45.7	9	47
457	2.8	134.2	-2.3	135.6	44.3	1.7	45.8	10	8
465	3.1	132.2	-2.3	133.6	44.4	1.8	45.7	10	18
1345	4.8	135.8	-2.4	137.2	44.3	1.7	45.7	11	14
510	5.1	135.5	-2.4	136.9	44.2	1.7	45.7	11	45
1387	5.3	131.2	-2.3	132.7	44.4	1.8	45.7	12	37
548	2.9	131.2	-2.3	132.7	44.4	1.8	45.8	12	37
1419	5.5	132.4	-2.3	133.8	44.3	1.8	45.7	13	49
624	5.0	134.8	-2.4	136.2	44.3	1.7	45.7	14	35
727	4.6	131.3	-2.3	132.8	44.4	1.8	45.8	17	8
722	5.0	137.5	-2.4	138.8	44.2	1.6	45.7	17	17
1512	5.5	132.1	-2.3	133.6	44.3	1.8	45.6	17	29
1514	5.1	131.8	-2.3	133.3	44.3	1.8	45.7	17	30
773	5.3	135.9	-2.4	137.3	44.2	1.7	45.7	18	36
1552	4.2	134.0	-2.3	135.5	44.3	1.7	45.7	18	58
1561	4.3	133.3	-2.3	134.8	44.2	1.7	45.6	19	13
812	3.8	133.0	-2.3	134.4	44.3	1.7	45.6	19	30
819	3.0	131.9	-2.3	133.4	44.3	1.8	45.6	19	35
866	3.5	131.2	-2.3	132.7	44.4	1.8	45.7	20	41
1621	5.3	136.3	-2.4	137.6	44.2	1.6	45.7	21	41
905	4.6	134.2	-2.3	135.6	44.3	1.7	45.8	21	56
22	2.2	135.6	-2.4	137.0	44.3	1.7	45.7	22	29
59	3.7	131.5	-2.3	133.0	44.4	1.8	45.7	23	31

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 18	A LAT 20	LAT 18	B LAT 20	HRS	MIN
792	3.9	314.5	2.8	313.1	45.6	-1.7	44.2
807	5.3	318.4	2.9	317.1	45.7	-1.6	44.2
1568	4.2	317.0	2.9	315.6	45.7	-1.6	44.3
969	3.6	312.1	2.7	310.6	45.6	-1.8	44.3
890	4.0	318.2	2.9	316.8	45.8	-1.6	44.3
891	4.3	313.4	2.8	312.0	45.7	-1.7	44.4
1619	4.3	315.0	2.9	313.6	45.7	-1.7	44.3
1622	5.1	318.2	2.9	316.8	45.7	-1.6	44.3
4	5.1	317.6	2.9	316.3	45.7	-1.6	44.3
1635	5.1	316.8	2.9	315.5	45.7	-1.6	44.2
1640	5.0	316.6	2.9	315.2	45.8	-1.6	44.3
73	2.3	312.1	2.7	310.6	45.7	-1.8	44.4
134	3.9	312.6	2.8	311.1	45.6	-1.8	44.3
193	3.4	314.4	2.8	313.0	45.7	-1.7	44.3
193	3.4	314.4	2.8	313.0	45.7	-1.7	44.3
227	2.1	316.1	2.0	314.7	45.7	-1.7	44.3
255	5.3	314.1	2.8	312.7	45.7	-1.7	44.3
314	4.4	313.6	2.8	312.1	45.7	-1.7	44.4
1225	5.5	317.5	2.9	316.1	45.8	-1.6	44.3
246	5.3	313.7	2.8	312.2	45.7	-1.7	44.4
1255	5.2	317.8	2.9	316.5	45.8	-1.6	44.3
383	3.5	313.2	2.8	311.8	45.7	-1.7	44.4
1276	5.3	318.2	2.9	316.8	45.7	-1.6	44.2
420	3.2	315.6	2.9	314.2	45.7	-1.7	44.2
1327	5.4	317.0	2.9	315.6	45.7	-1.6	44.3
1369	5.4	314.7	2.9	313.2	45.7	-1.7	44.3
527	4.3	313.3	2.8	311.6	45.7	-1.6	44.3
540	5.4	315.4	2.9	314.0	45.7	-1.7	44.3
1416	4.6	312.5	2.8	311.0	45.7	-1.8	44.4
621	4.3	316.2	2.9	314.8	45.7	-1.7	44.3
628	3.9	318.2	2.9	316.9	45.7	-1.6	44.3
621	4.3	312.5	2.8	311.0	45.6	-1.8	44.3
663	3.8	317.7	2.9	316.3	45.8	-1.6	44.3
684	5.4	312.1	2.7	311.5	45.6	-1.8	44.3
711	4.2	314.6	2.8	313.1	45.7	-1.7	44.3
757	4.3	318.7	2.9	317.4	45.7	-1.6	44.2
777	1.3	316.5	2.9	315.1	45.7	-1.6	44.2

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 18	A LAT 20	LAT 18	B LAT 20	HRS	MIN
928	4.4	225.9	-2.5	224.5	44.3	-1.7	45.8
961	4.2	226.4	-2.5	225.0	44.2	-1.7	45.7
894	4.6	224.4	-2.5	223.0	44.3	-1.6	45.7
1271	4.8	222.0	-2.6	221.5	44.2	-1.6	45.7
1266	4.9	224.1	-2.4	222.6	44.4	-1.8	45.7
97	4.4	226.7	-2.5	224.6	44.4	-1.7	45.8
149	3.2	226.6	-2.5	225.2	44.2	-1.7	45.7
172	4.0	225.1	-2.5	223.7	44.3	-1.7	45.7
1146	4.3	227.4	-2.4	225.0	44.2	-1.7	45.6
219	3.7	224.2	-2.5	222.8	44.2	-1.6	45.8
226	3.8	225.4	-2.5	224.0	44.3	-1.7	45.7
1222	5.1	224.7	-2.5	223.3	44.2	-1.6	45.7
325	5.2	223.1	-2.4	221.6	44.4	-1.9	45.7
364	5.0	225.4	-2.5	224.0	44.4	-1.7	45.8
1261	4.7	228.0	-2.4	226.5	44.4	-1.7	45.7
426	3.8	224.5	-2.5	223.1	44.3	-1.6	45.9
1371	4.6	227.2	-2.4	225.7	44.3	-1.7	45.6
577	4.3	224.2	-2.5	222.8	44.2	-1.6	45.7
4417	4.7	225.2	-2.5	223.8	44.2	-1.7	45.7
658	3.6	222.7	-2.6	221.4	44.2	-1.6	45.7
696	4.7	224.6	-2.5	223.2	44.2	-1.6	45.8
762	3.2	223.9	-2.5	222.5	44.2	-1.6	45.7
1527	4.6	228.0	-2.4	226.2	44.4	-1.8	45.7
761	3.9	228.6	-2.4	227.2	44.3	-1.8	45.7
1562	5.5	228.2	-2.4	226.5	44.4	-1.7	45.7
1577	5.2	226.5	-2.5	225.1	44.3	-1.7	45.7

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 18	A LAT 20	LAT 18	B LAT 20	HRS	MIN
134	3.9	47.5	0.8	49.0	45.7	1.8	44.4
183	3.4	45.6	0.8	47.1	45.7	1.7	44.3
193	3.2	42.4	0.9	43.7	45.8	1.6	44.3
227	2.1	43.9	0.9	45.3	45.7	1.7	44.3
255	5.3	45.8	0.8	47.3	45.6	1.7	44.2
314	4.4	46.4	0.8	47.9	45.7	1.7	44.3
1225	5.5	42.4	0.9	43.8	45.7	1.6	44.2
346	5.3	46.3	0.8	47.8	45.7	1.7	44.4
1255	5.2	42.1	0.9	43.5	45.7	1.6	44.2
383	3.5	46.8	0.8	48.2	45.7	1.7	44.3
1276	5.3	41.9	0.9	43.2	45.8	1.6	44.3
420	3.2	44.4	0.9	45.6	45.7	1.7	44.3
1327	5.4	43.0	0.9	44.4	45.8	1.6	44.3
1368	5.4	45.4	0.8	46.8	45.7	1.7	44.3
527	4.3	42.1	0.9	43.4	45.8	1.6	44.3
540	5.4	44.6	0.8	46.0	45.7	1.7	44.3
1416	4.6	47.5	0.8	49.0	45.7	1.8	44.4
601	4.3	43.8	0.9	45.2	45.7	1.7	44.3
698	3.9	41.8	0.9	43.1	45.8	1.6	44.3
621	4.3	47.5	0.8	49.0	45.6	1.8	44.3
663	3.8	42.3	0.9	43.7	45.8	1.6	44.3
684	5.4	49.0	0.7	46.5	45.6	1.8	44.3
711	4.2	45.4	0.8	46.8	45.6	1.7	44.2
757	4.0	41.2	0.9	42.6	45.7	1.6	44.2
777	1.3	42.5	0.9	44.9	45.8	1.6	44.3
792	3.9	45.5	0.8	47.0	45.7	1.7	44.3
807	5.3	41.6	0.9	43.0	45.7	1.6	44.3
1568	4.2	43.1	0.9	44.5	45.8	1.6	44.3
869	3.6	47.9	0.7	49.4	45.6	1.8	44.3
891	4.3	46.5	0.8	48.0	45.6	1.7	44.3
1619	4.3	44.9	0.8	46.4	45.7	1.7	44.3
890	4.0	41.7	0.9	43.1	45.7	1.6	44.2
1622	5.1	41.8	0.9	43.2	45.7	1.6	44.3
4	5.1	42.4	0.9	43.8	45.8	1.6	44.3
1035	5.0	43.2	0.9	44.6	45.7	1.6	44.3
1040	5.0	43.4	0.9	44.8	45.7	1.6	44.3
73	2.3	47.8	0.8	49.4	45.6	1.8	44.3

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 18	A LAT 20	LAT 18	B LAT 20	HRS	MIN
1266	4.9	129.0	-2.4	132.4	44.4	1.8	45.7
1071	4.8	137.1	-2.6	136.4	44.2	1.6	45.7
97	4.4	134.2	-2.5	135.6	44.2	1.7	45.7
149	3.2	133.3	-2.5	134.7	44.3	1.7	45.7
172	4.0	125.0	-2.5	136.4	44.2	1.6	45.6
1146	4.3	132.6	-2.4	134.0	44.3	1.7	45.7
219	3.7	135.8	-2.5	137.2	44.4	1.6	45.9
226	3.8	134.6	-2.5	136.0	44.3	1.7	45.7
1202	5.1	135.3	-2.5	136.7	44.3	1.6	45.7
325	5.2	130.9	-2.4	132.4	44.4	1.8	45.7
364	5.0	134.7	-2.5	136.1	44.3	1.7	45.7
1261	4.7	132.2	-2.4	133.7	44.2	1.7	45.6
426	3.8	135.6	-2.5	137.0	44.3	1.6	45.7
1371	4.6	132.8	-2.4	134.2	44.3	1.7	45.6
577	4.3	135.6	-2.5	137.0	44.3	1.6	45.8
1417	4.7	134.7	-2.5	136.1	44.3	1.7	45.7
658	3.6	137.0	-2.6	138.4	44.3	1.6	45.8
696	4.7	135.3	-2.5	136.7	44.3	1.6	45.8
762	4.6	131.2	-2.4	132.7	44.4	1.8	45.7
761	3.9	131.4	-2.4	132.9	44.3	1.8	45.7
752	3.3	135.9	-2.5	137.2	44.3	1.6	45.6
1562	5.5	132.2	-2.4	133.7	44.2	1.7	45.6
1577	5.2	132.4	-2.5	134.8	44.4	1.7	45.8
828	4.4	134.1	-2.5	135.6	44.3	1.7	45.7
861	4.2	132.6	-2.5	135.0	44.3	1.7	45.7
894	4.6	135.5	-2.5	136.9	44.3	1.6	45.8

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 2°	A LAT 22	LAT 2°	B LAT 22	HRS	MIN
1551	4.9	317.7	0.8	316.3	45.8	-1.6	44.3
792	3.9	312.5	0.7	311.0	45.6	-1.7	44.3
807	5.3	316.3	0.8	314.9	45.6	-1.6	44.2
1568	4.2	314.8	0.7	313.4	45.8	-1.7	44.4
890	4.0	316.1	0.8	314.7	45.6	-1.6	44.2
1619	4.3	313.0	0.7	311.5	45.7	-1.7	44.3
1522	5.1	316.0	0.8	314.6	45.7	-1.6	44.3
4	5.1	315.5	0.7	314.1	45.7	-1.7	44.3
25	4.7	318.8	0.8	317.5	45.8	-1.6	44.3
1035	5.0	314.7	0.7	313.3	45.7	-1.7	44.3
1040	5.0	314.6	0.7	313.1	45.7	-1.7	44.3
52	3.8	319.3	0.9	318.0	45.8	-1.5	44.2
1063	5.1	317.5	0.8	316.1	45.7	-1.6	44.3
124	4.6	319.4	0.8	317.1	45.8	-1.6	44.3
131	3.1	318.1	0.8	316.8	45.8	-1.6	44.3
152	4.0	318.1	0.8	316.7	45.7	-1.6	44.2
1117	4.3	319.1	0.9	317.8	45.7	-1.5	44.2
183	3.4	312.4	0.7	310.9	45.7	-1.7	44.4
193	0.2	315.5	0.7	314.1	45.7	-1.7	44.3
227	2.1	314.1	0.7	312.6	45.6	-1.7	44.2
255	5.2	312.1	0.6	310.6	45.7	-1.8	44.4
1225	5.5	315.5	0.8	314.1	45.6	-1.7	44.2
335	3.1	318.7	0.8	317.4	45.7	-1.6	44.3
341	3.7	317.4	0.8	316.1	45.7	-1.6	44.2
1255	5.2	315.7	0.8	314.3	45.8	-1.6	44.4
1276	5.3	316.1	0.8	314.7	45.7	-1.6	44.2
420	3.2	313.5	0.7	312.1	45.8	-1.7	44.4
441	3.9	318.4	0.8	317.0	45.8	-1.6	44.3
1327	5.4	314.9	0.7	313.5	45.8	-1.7	44.4
1368	5.4	312.6	0.7	311.1	45.6	-1.7	44.3
527	4.3	315.8	0.8	314.4	45.7	-1.6	44.3
540	5.4	313.4	0.7	311.9	45.6	-1.7	44.3
601	4.0	314.1	0.7	312.7	45.6	-1.7	44.2
608	3.8	315.6	0.8	314.2	45.6	-1.7	44.2
711	4.2	312.5	0.7	311.1	45.7	-1.7	44.4
757	4.3	316.6	0.8	315.2	45.7	-1.6	44.2
777	1.3	314.4	0.7	313.0	45.7	-1.7	44.4

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 2°	A LAT 22	LAT 2°	B LAT 22	HRS	MIN
1591	4.9	228.8	-2.5	227.3	44.3	-1.7	45.6
861	4.2	222.7	-2.6	221.3	44.2	-1.6	45.7
30	5.2	229.0	-2.4	227.5	44.4	-1.7	45.7
1051	4.8	228.9	-2.5	227.3	44.3	-1.7	45.6
1066	4.9	225.6	-2.5	224.2	44.3	-1.6	45.7
149	3.2	222.9	-2.6	221.6	44.2	-1.6	45.7
1146	4.3	223.9	-2.6	222.5	44.3	-1.6	45.8
1171	5.4	227.4	-2.5	226.0	44.3	-1.7	45.7
266	4.3	226.4	-2.5	225.0	44.3	-1.7	45.7
325	5.2	225.6	-2.5	224.2	44.3	-1.6	45.7
1261	4.7	224.2	-2.6	222.9	44.2	-1.6	45.7
381	3.8	225.9	-2.5	224.4	44.3	-1.7	45.7
499	1.2	223.4	-2.5	226.9	44.4	-1.7	45.7
1371	4.6	223.7	-2.6	222.4	44.2	-1.6	45.8
1438	4.7	229.1	-2.4	227.6	44.4	-1.7	45.7
1527	4.6	225.3	-2.6	223.9	44.4	-1.6	45.8
761	3.8	225.2	-2.6	223.8	44.3	-1.6	45.8
794	4.5	227.4	-2.5	226.0	44.2	-1.7	45.6
1562	5.5	224.3	-2.6	222.9	44.2	-1.6	45.7
1577	5.2	222.3	-2.6	221.5	44.2	-1.6	45.7
819	5.4	227.4	-2.5	226.0	44.3	-1.7	45.6

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 2°	A LAT 22	LAT 2°	B LAT 22	HRS	MIN
124	4.6	41.5	0.8	42.9	45.7	1.6	44.2
131	3.1	41.9	0.8	43.2	45.8	1.6	44.3
152	4.0	42.0	0.8	43.3	45.7	1.6	44.3
1117	4.3	40.9	0.9	42.2	45.7	1.5	44.2
183	3.4	47.6	0.7	49.1	45.7	1.7	44.4
193	0.2	44.4	0.8	45.8	45.6	1.7	44.2
227	2.1	45.9	0.7	47.4	45.6	1.7	44.3
255	5.3	47.9	0.6	49.4	45.6	1.8	44.3
1225	5.5	44.5	0.7	46.0	45.7	1.7	44.3
335	3.1	41.2	0.8	42.6	45.7	1.6	44.2
341	3.7	42.6	0.8	44.0	45.8	1.6	44.3
1255	5.2	44.2	0.8	45.6	45.7	1.6	44.3
1276	5.3	44.0	0.8	45.4	45.8	1.6	44.4
420	3.2	46.4	0.7	47.9	45.6	1.7	44.2
441	3.9	41.6	0.8	43.0	45.8	1.6	44.3
1327	5.4	45.1	0.7	46.5	45.7	1.7	44.3
1368	5.4	47.4	0.7	48.9	45.7	1.7	44.4
527	4.3	44.2	0.8	45.6	45.8	1.6	44.4
540	5.4	46.6	0.7	48.1	45.7	1.7	44.3
601	4.3	45.9	0.7	47.3	45.7	1.7	44.3
608	3.9	43.9	0.8	45.3	45.8	1.6	44.3
663	3.8	44.4	0.7	45.8	45.8	1.7	44.4
711	4.2	47.4	0.7	48.9	45.6	1.7	44.3
757	4.0	43.4	0.8	44.8	45.7	1.6	44.2
777	1.3	45.5	0.7	47.0	45.7	1.7	44.3
792	3.9	47.5	0.7	49.0	45.7	1.7	44.3
1551	4.9	42.3	0.9	43.7	45.8	1.6	44.3
807	5.3	43.7	0.8	45.1	45.7	1.6	44.3
1568	4.2	45.1	0.7	46.6	45.7	1.7	44.3
1619	4.3	47.0	0.7	48.5	45.6	1.7	44.3
890	4.0	43.9	0.8	45.3	45.7	1.6	44.2
1622	5.1	44.0	0.8	45.4	45.7	1.6	44.3
4	5.1	44.4	0.8	45.9	45.6	1.7	44.2
25	4.7	41.1	0.8	42.5	45.7	1.6	44.2
1035	5.0	45.2	0.7	46.7	45.6	1.7	44.2
1040	5.0	45.4	0.7	46.8	45.6	1.7	44.2
52	3.8	40.7	0.9	42.0	45.8	1.5	44.3
1063	5.1	42.5	0.8	43.9	45.7	1.6	44.3

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 2°	A LAT 22	LAT 2°	B LAT 22	HRS	MIN
1066	4.9	134.4	-2.5	135.8	44.3	1.6	45.7
149	3.2	137.0	-2.6	138.4	44.2	1.6	45.7
1146	4.3	136.3	-2.6	137.6	44.2	1.6	45.7
1171	5.4	132.7	-2.5	134.2	44.3	1.7	45.6
266	4.3	133.7	-2.5	135.1	44.3	1.7	45.7
325	5.2	134.4	-2.5	135.8	44.3	1.6	45.8
1261	4.7	135.7	-2.6	137.1	44.3	1.6	45.7
381	3.8	134.1	-2.5	135.5	44.3	1.7	45.7
499	1.2	131.8	-2.5	133.2	44.3	1.7	45.6
1371	4.6	136.3	-2.6	137.6	44.3	1.6	45.8
1438	4.7	131.1	-2.5	132.5	44.3	1.7	45.7
1527	4.6	134.9	-2.6	136.3	44.2	1.6	45.6
761	3.8	134.9	-2.6	136.3	44.3	1.6	45.7
794	4.5	132.6	-2.5	134.0	44.3	1.7	45.6
1562	5.5	135.7	-2.6	137.1	44.3	1.6	45.7
819	5.4	132.6	-2.5	134.0	44.2	1.7	45.6
1577	5.2	137.1	-2.6	138.4	44.3	1.6	45.8
1591	4.9	131.1	-2.5	132.6	44.3	1.7	45.7
861	4.2	137.3	-2.6	138.7	44.2	1.6	45.7
30	5.2	131.0	-2.4	132.4	44.4	1.7	45.7
1051	4.8	131.1	-2.5	132.6	44.3	1.7	45.7

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS MIN
1551	4.9	312.0	0.3	310.5	45.6	-1.7	44.3	0 26
821	4.3	314.5	0.4	313.1	45.8	-1.6	44.4	1 12
844	4.6	318.7	0.5	317.4	45.7	-1.5	44.2	1 44
848	3.9	315.9	0.4	314.5	45.7	-1.6	44.3	1 55
25	4.7	313.0	0.4	311.6	45.7	-1.6	44.3	4 10
52	3.8	313.5	0.4	312.1	45.7	-1.6	44.3	5 3
57	4.2	316.5	0.5	315.1	45.7	-1.6	44.3	5 6
77	5.4	317.0	0.5	315.6	45.8	-1.5	44.3	5 36
1063	5.1	311.8	0.3	310.3	45.6	-1.7	44.3	5 45
93	4.2	314.4	0.4	313.0	45.6	-1.6	44.3	6 8
103	4.1	319.5	0.5	318.2	45.7	-1.5	44.2	6 13
112	4.2	315.0	0.4	313.5	45.7	-1.6	44.4	6 33
120	1.9	315.3	0.4	313.9	45.8	-1.6	44.3	6 48
124	4.6	312.7	0.4	311.2	45.7	-1.7	44.3	6 56
131	3.1	312.4	0.3	311.9	45.6	-1.7	44.3	7 8
1113	4.3	316.1	0.5	314.7	45.7	-1.6	44.2	7 29
152	4.0	312.3	0.3	310.8	45.6	-1.7	44.3	7 34
1117	4.3	313.3	0.4	311.8	45.7	-1.6	44.4	7 40
216	5.5	315.4	0.4	314.0	45.7	-1.6	44.3	9 9
242	5.1	314.6	0.4	313.2	45.7	-1.6	44.4	9 49
1176	5.3	313.9	0.4	312.5	45.7	-1.6	44.2	10 12
307	4.9	317.9	0.5	316.5	45.7	-1.5	44.2	11 29
335	3.1	313.0	0.4	311.5	45.6	-1.6	44.3	12 24
341	3.7	311.7	0.3	310.2	45.7	-1.7	44.4	12 30
358	3.3	318.1	0.5	316.8	45.8	-1.5	44.3	12 54
441	3.9	312.6	0.3	311.1	45.7	-1.7	44.4	15 12
509	1.9	314.6	0.4	313.4	45.7	-1.6	44.3	17 12
528	4.9	317.7	0.5	316.4	45.7	-1.5	44.3	17 38
531	4.1	318.4	0.5	317.1	45.7	-1.5	44.2	17 46
1434	5.1	314.2	0.4	312.7	45.7	-1.6	44.3	20 4
653	3.0	319.0	0.5	317.6	45.7	-1.5	44.2	20 51
676	2.4	317.7	0.5	316.4	45.8	-1.5	44.3	21 19
733	3.9	319.1	0.5	317.7	45.7	-1.5	44.2	22 51
738	4.6	315.9	0.4	314.5	45.7	-1.6	44.3	23 9

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS MIN
840	4.3	224.0	-2.8	222.6	44.3	-1.5	45.7	0 13
864	3.8	224.5	-2.7	223.1	44.3	-1.5	45.7	0 50
1607	4.4	227.0	-2.6	226.4	44.3	-1.6	45.7	1 19
1636	4.7	229.0	-2.6	228.6	44.4	-1.6	45.7	2 7
1702	4.7	229.8	-2.6	227.3	44.4	-1.7	45.7	2 12
47	3.9	223.0	-2.8	221.7	44.2	-1.5	45.7	3 18
154	4.1	226.3	-2.7	224.8	44.3	-1.6	45.7	6 13
104	0.3	223.2	-2.8	221.9	44.2	-1.5	45.7	7 9
195	3.7	226.3	-2.7	224.9	44.3	-1.6	45.7	7 19
229	2.9	229.4	-2.6	226.9	44.3	-1.6	45.6	7 41
1171	5.1	224.1	-2.8	222.7	44.2	-1.5	45.7	8 16
1263	5.4	224.1	-2.8	222.6	44.3	-1.5	45.8	12 14
475	4.8	224.2	-2.7	222.8	44.3	-1.5	45.8	14 36
525	4.2	228.5	-2.6	227.0	44.4	-1.6	45.7	16 22
1482	4.1	223.3	-2.8	221.9	44.3	-1.5	45.8	20 31
702	5.1	223.2	-2.8	221.8	44.3	-1.5	45.8	20 38
1500	5.4	223.7	-2.9	222.3	44.2	-1.5	45.7	21 8
737	5.0	225.0	-2.7	224.4	44.3	-1.6	45.7	21 37
1569	4.9	224.0	-2.8	222.6	44.3	-1.5	45.8	23 34
818	3.1	229.1	-2.6	227.6	44.4	-1.7	45.7	23 39

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS MIN
124	4.6	47.3	0.3	48.8	45.7	1.7	44.4	0 2
131	3.1	47.6	0.3	49.1	45.6	1.7	44.3	0 15
152	4.0	47.7	0.3	49.2	45.7	1.7	44.4	0 40
1113	4.3	43.9	0.5	45.3	45.7	1.6	44.3	0 41
1117	4.3	46.7	0.4	48.2	45.7	1.6	44.3	0 47
216	5.5	44.6	0.4	46.0	45.6	1.6	44.2	2 20
242	5.1	45.4	0.4	46.8	45.7	1.6	44.3	2 58
1176	5.3	46.1	0.4	47.5	45.7	1.6	44.4	3 20
307	4.9	42.1	0.5	43.5	45.7	1.5	44.2	4 45
335	3.1	47.0	0.4	48.5	45.7	1.5	44.3	5 31
341	3.7	48.3	0.3	49.8	45.6	1.7	44.3	5 35
358	3.3	41.9	0.5	43.2	45.8	1.5	44.3	6 9
441	3.9	47.4	0.3	48.9	45.7	1.7	44.4	8 18
509	1.9	45.2	0.4	46.7	45.8	1.6	44.4	10 21
528	4.9	42.3	0.5	43.6	45.7	1.5	44.3	10 53
531	4.1	41.6	0.5	42.9	45.7	1.5	44.2	11 3
1434	5.1	45.9	0.4	47.3	45.8	1.6	44.4	13 12
653	3.0	41.0	0.5	42.4	45.7	1.5	44.2	14 9
676	2.4	42.2	0.5	43.6	45.7	1.5	44.2	14 34
733	3.9	42.0	0.5	43.3	45.7	1.5	44.3	16 7
738	4.6	44.1	0.4	45.5	45.6	1.6	44.2	16 12
1551	4.9	48.0	0.3	49.5	45.7	1.7	44.3	17 32
821	4.3	45.5	0.4	46.9	45.6	1.6	44.2	18 21
844	4.6	41.3	0.5	42.7	45.8	1.5	44.3	19 1
848	3.9	44.1	0.4	45.5	45.7	1.6	44.3	19 6
25	4.7	47.3	0.4	48.4	45.7	1.6	44.3	21 17
52	3.8	46.4	0.4	47.9	45.6	1.6	44.3	22 11
57	4.2	43.5	0.5	44.9	45.7	1.6	44.2	22 19
77	5.4	43.0	0.5	44.4	45.7	1.5	44.3	22 49
1063	5.1	48.2	0.3	49.7	45.6	1.7	44.3	22 51
93	4.2	45.6	0.4	47.0	45.7	1.6	44.4	23 17
103	4.1	40.5	0.5	41.9	45.8	1.5	44.3	23 32
112	4.2	45.0	0.4	46.4	45.6	1.6	44.2	23 43
120	1.9	44.7	0.4	46.1	45.7	1.6	44.3	23 58

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D		L.S.T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS MIN
154	4.1	133.8	-2.7	135.2	44.2	1.6	45.6	2 9
195	3.7	133.6	-2.7	135.0	44.3	1.6	45.7	3 14
194	0.3	136.8	-2.8	138.1	44.3	1.5	45.7	3 18
209	2.9	131.7	-2.6	133.2	44.3	1.6	45.6	3 28
1170	5.1	135.9	-2.7	137.2	44.3	1.5	45.7	4 21
1263	5.4	136.2	-2.8	137.6	44.2	1.5	45.7	8 20
475	4.8	136.0	-2.8	137.4	44.3	1.5	45.7	10 41
525	4.2	131.5	-2.6	133.0	44.3	1.6	45.7	12 8
1482	4.1	136.9	-2.8	138.3	44.2	1.5	45.7	16 39
702	5.1	136.9	-2.8	138.2	44.3	1.5	45.8	16 47
1500	5.4	136.2	-2.8	137.6	44.2	1.5	45.7	17 15
737	5.0	134.0	-2.7	135.4	44.4	1.6	45.8	17 34
808	3.1	130.9	-2.6	132.4	44.4	1.7	45.7	19 22
1569	4.8	136.2	-2.8	137.6	44.2	1.5	45.7	19 40
840	4.3	135.8	-2.7	137.2	44.3	1.5	45.8	20 18
864	3.8	135.4	-2.7	136.8	44.3	1.5	45.8	20 53
1607	4.4	132.2	-2.7	133.7	44.2	1.6	45.6	21 8
1630	4.7	132.9	-2.6	133.5	44.3	1.6	45.7	21 55
1022	4.7	131.3	-2.6	132.8	44.3	1.7	45.7	21 57
47	3.9	127.0	-2.8	128.3	44.2	1.5	45.7	23 28

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS	MIN
821	4.3	312.8	0.3	311.3	45.7	-1.6	44.3	1	20
844	4.6	316.9	0.4	315.5	45.7	-1.5	44.3	1	54
848	3.9	314.1	0.3	312.7	45.7	-1.6	44.4	2	4
17	3.7	319.3	0.4	317.9	45.7	-1.4	44.2	4	5
52	3.8	311.8	0.2	310.3	45.6	-1.6	44.3	5	11
57	4.2	314.7	0.3	313.3	45.7	-1.6	44.3	5	15
77	5.4	315.3	0.3	313.8	45.7	-1.6	44.3	5	45
93	4.2	312.7	0.2	311.2	45.7	-1.6	44.4	6	17
103	4.1	317.7	0.4	316.3	45.8	-1.5	44.3	6	24
108	3.1	318.9	0.4	317.4	45.7	-1.5	44.3	6	33
112	4.2	313.3	0.3	311.8	45.6	-1.6	44.3	6	41
120	1.9	313.6	0.3	312.1	45.6	-1.6	44.3	6	56
1113	4.3	314.3	0.3	312.9	45.7	-1.6	44.3	7	38
1117	4.3	311.6	0.2	310.1	45.7	-1.7	44.4	7	48
216	5.5	313.6	0.3	312.2	45.7	-1.6	44.4	9	19
242	5.1	312.9	0.3	311.4	45.6	-1.6	44.3	9	57
1176	5.3	312.2	0.2	310.7	45.6	-1.6	44.3	10	20
327	4.9	316.1	0.3	314.7	45.7	-1.5	44.3	11	30
358	3.3	316.4	0.4	315.0	45.7	-1.5	44.3	13	3
447	2.5	319.3	0.4	318.0	45.8	-1.4	44.3	15	22
509	1.9	313.1	0.3	311.6	45.8	-1.6	44.4	17	21
528	4.9	316.0	0.3	314.6	45.6	-1.5	44.2	17	47
531	4.1	316.6	0.4	315.3	45.7	-1.5	44.3	17	56
1434	5.1	312.5	0.2	311.0	45.6	-1.6	44.3	20	12
653	3.0	317.2	0.4	315.8	45.7	-1.5	44.3	21	1
676	2.4	316.0	0.3	314.6	45.7	-1.5	44.3	21	29
726	4.0	318.6	0.4	317.3	45.7	-1.5	44.2	22	46
733	3.9	316.3	0.3	314.9	45.7	-1.5	44.3	23	1
739	4.6	314.1	0.3	312.7	45.7	-1.6	44.3	23	9

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS	MIN
1595	5.3	229.2	-2.7	226.8	44.4	-1.6	45.7	3	43
1607	4.4	224.0	-2.8	222.6	44.3	-1.5	45.7	1	10
1630	4.7	224.1	-2.8	222.7	44.3	-1.5	45.7	1	59
1702	4.7	224.8	-2.8	223.4	44.3	-1.5	45.7	2	3
1797	4.8	226.5	-2.7	225.0	44.4	-1.6	45.8	5	32
188	2.9	226.4	-2.7	225.0	44.3	-1.6	45.7	7	9
200	2.9	224.4	-2.8	223.0	44.2	-1.5	45.7	7	32
246	5.0	227.3	-2.7	225.8	44.3	-1.6	45.7	9	31
1186	5.0	228.5	-2.7	227.0	44.4	-1.6	45.7	9	16
299	5.2	228.6	-2.7	227.2	44.3	-1.6	45.6	9	43
490	4.5	225.6	-2.8	224.2	44.2	-1.5	45.6	15	9
525	4.2	224.6	-2.8	223.2	44.3	-1.5	45.7	16	13
545	4.0	225.4	-2.8	224.0	44.3	-1.5	45.7	16	42
605	3.3	227.6	-2.7	226.1	44.4	-1.6	45.7	18	22
1445	5.0	228.6	-2.7	227.1	44.4	-1.6	45.7	19	7
647	4.6	226.5	-2.7	225.1	44.3	-1.6	45.7	19	29
1489	4.5	227.2	-2.7	225.8	44.3	-1.6	45.7	20	50
717	3.6	226.8	-2.7	225.4	44.3	-1.6	45.6	21	8
1543	4.6	226.5	-2.7	225.1	44.3	-1.6	45.7	22	40
829	3.1	225.2	-2.8	223.8	44.3	-1.5	45.7	23	30

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS	MIN
1113	4.3	45.7	0.3	47.1	45.7	1.6	44.3	0	32
1117	4.3	48.4	0.2	49.9	45.7	1.7	44.3	0	39
216	5.5	46.4	0.3	47.8	45.7	1.6	44.3	2	11
242	5.1	47.1	0.3	48.6	45.6	1.6	44.3	2	50
1176	5.3	47.8	0.2	49.3	45.7	1.6	44.3	3	12
307	4.9	43.9	0.3	45.3	45.7	1.5	44.3	4	25
358	3.3	43.6	0.4	45.0	45.7	1.5	44.3	6	0
447	2.5	40.7	0.4	42.0	45.7	1.4	44.2	8	24
509	1.9	46.9	0.3	48.4	45.7	1.6	44.3	10	13
528	4.9	44.1	0.3	45.5	45.8	1.5	44.4	10	43
531	4.1	43.4	0.4	44.7	45.7	1.5	44.3	10	53
1434	5.1	47.6	0.2	49.0	45.7	1.6	44.4	13	4
653	3.0	42.8	0.4	44.2	45.7	1.5	44.3	13	59
676	2.4	44.0	0.3	45.4	45.7	1.5	44.3	14	24
726	4.0	41.4	0.4	42.7	45.7	1.5	44.2	15	47
733	3.9	43.7	0.3	45.1	45.8	1.5	44.4	15	57
738	4.6	45.8	0.3	47.3	45.6	1.6	44.3	16	3
821	4.3	47.2	0.3	48.7	45.7	1.6	44.4	18	12
844	4.6	43.1	0.4	44.5	45.8	1.5	44.4	18	51
848	3.9	45.9	0.3	47.3	45.7	1.6	44.4	18	57
17	3.7	40.7	0.4	42.0	45.7	1.4	44.2	21	7
52	3.8	48.2	0.2	49.7	45.7	1.6	44.4	22	2
57	4.2	45.3	0.3	46.7	45.6	1.6	44.2	22	10
77	5.4	44.7	0.3	46.1	45.7	1.6	44.3	22	40
93	4.2	47.3	0.3	48.8	45.7	1.6	44.3	23	9
103	4.1	42.3	0.4	43.7	45.8	1.5	44.3	23	22
108	3.1	41.2	0.4	42.6	45.7	1.5	44.2	23	34
112	4.2	46.7	0.3	48.2	45.7	1.6	44.3	23	34
120	1.9	46.4	0.3	47.9	45.7	1.6	44.4	23	49

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS	MIN
1797	4.8	133.7	-2.7	135.2	44.2	1.6	45.6	1	28
189	2.9	133.6	-2.7	135.1	44.3	1.6	45.7	3	5
279	2.9	135.3	-2.8	136.7	44.4	1.5	45.8	3	36
245	5.0	132.7	-2.7	134.2	44.3	1.6	45.7	4	23
1186	5.0	131.6	-2.7	133.1	44.3	1.6	45.6	5	3
289	5.2	131.2	-2.7	132.7	44.4	1.6	45.7	5	29
490	4.5	134.2	-2.8	135.6	44.4	1.5	45.8	11	8
525	4.2	135.4	-2.8	136.8	44.3	1.5	45.7	12	17
545	4.0	134.6	-2.8	136.0	44.3	1.5	45.7	12	42
605	3.3	132.6	-2.7	134.0	44.3	1.6	45.7	14	13
1445	5.0	131.4	-2.7	132.9	44.4	1.6	45.7	14	53
647	4.6	133.4	-2.7	134.9	44.3	1.6	45.7	15	23
1489	4.5	132.7	-2.7	134.2	44.4	1.6	45.7	16	42
717	3.6	133.1	-2.7	134.5	44.3	1.6	45.7	17	2
1543	4.6	133.4	-2.7	134.8	44.4	1.6	45.8	18	44
829	3.1	134.8	-2.8	136.2	44.3	1.5	45.7	19	31
1595	5.3	131.9	-2.7	133.3	44.3	1.6	45.6	20	31
1607	4.4	136.1	-2.8	137.5	44.2	1.5	45.7	21	17
1630	4.7	135.9	-2.8	137.3	44.3	1.5	45.7	22	4
1702	4.7	135.3	-2.8	136.7	44.2	1.5	45.7	22	6

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 30	A LAT 32	LAT 30	B LAT 32	HRS	MIN		
944	4.6	315.3	0.2	313.8	45.6	-1.5	44.2	2	3
888	3.9	312.5	0.1	311.0	45.6	-1.6	44.3	2	12
17	3.7	317.6	0.3	316.2	45.7	-1.5	44.2	4	15
1030	5.3	319.1	0.3	317.7	45.7	-1.4	44.2	4	45
57	4.2	313.1	0.2	311.6	45.7	-1.6	44.3	5	24
1054	5.0	318.4	0.3	317.1	45.8	-1.4	44.3	5	40
77	5.4	313.6	0.2	312.2	45.7	-1.6	44.4	5	54
163	4.1	316.0	0.2	314.6	45.7	-1.5	44.3	6	33
108	3.1	317.1	0.3	315.7	45.7	-1.5	44.3	6	43
112	4.2	311.6	0.1	310.1	45.7	-1.6	44.4	6	50
120	1.9	312.0	0.1	310.5	45.7	-1.6	44.4	7	5
1113	4.3	312.7	0.1	311.2	45.7	-1.6	44.4	7	47
216	5.5	312.0	0.1	310.5	45.6	-1.6	44.3	9	26
225	3.9	318.3	0.3	316.9	45.8	-1.4	44.3	9	37
307	4.9	314.5	0.2	313.0	45.7	-1.5	44.3	11	48
358	3.3	318.8	0.2	317.3	45.6	-1.5	44.2	13	12
447	2.5	317.6	0.3	316.2	45.7	-1.5	44.3	15	32
497	2.4	319.3	0.3	318.0	45.7	-1.4	44.2	17	1
528	4.9	314.3	0.2	312.9	45.8	-1.6	44.4	17	57
531	4.1	316.0	0.2	313.6	45.7	-1.5	44.3	18	5
1397	5.2	318.9	0.3	317.4	45.7	-1.4	44.2	18	44
595	5.0	319.0	0.3	317.7	45.8	-1.4	44.3	19	36
655	5.0	319.6	0.3	318.2	45.8	-1.4	44.3	21	10
657	5.0	319.6	0.3	318.2	45.8	-1.4	44.3	21	10
653	3.0	315.5	0.2	314.1	45.8	-1.5	44.4	21	11
676	2.4	314.4	0.2	312.9	45.7	-1.6	44.3	21	37
726	4.0	317.0	0.3	315.6	45.7	-1.5	44.2	22	56
733	3.9	314.6	0.2	313.2	45.7	-1.5	44.3	23	11
738	4.6	312.5	0.1	311.0	45.7	-1.6	44.4	23	18

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 30	A LAT 32	LAT 30	B LAT 32	HRS	MIN		
1113	4.3	47.3	0.1	48.8	45.7	1.6	44.4	0	23
216	5.5	48.0	0.1	49.5	45.6	1.6	44.3	2	3
225	3.9	41.7	0.3	43.1	45.7	1.4	44.3	2	19
307	4.9	45.5	0.2	47.0	45.7	1.5	44.3	4	26
358	3.3	45.2	0.2	46.7	45.6	1.5	44.3	5	51
447	2.5	42.4	0.3	43.8	45.8	1.5	44.3	8	13
497	2.4	40.7	0.3	42.0	45.8	1.4	44.3	9	45
528	4.9	45.7	0.2	47.1	45.8	1.6	44.4	10	34
531	4.1	45.0	0.2	46.4	45.7	1.5	44.3	10	44
1397	5.2	41.2	0.3	42.6	45.8	1.4	44.3	11	27
595	5.0	41.0	0.3	42.3	45.7	1.4	44.2	12	19
653	3.0	44.5	0.2	45.9	45.8	1.5	44.4	13	49
655	5.0	40.4	0.3	41.7	45.7	1.4	44.2	13	54
657	5.0	40.4	0.3	41.8	45.7	1.4	44.2	13	54
676	2.4	45.6	0.2	47.1	45.7	1.6	44.3	14	15
726	4.0	43.1	0.3	44.4	45.7	1.5	44.3	15	37
733	3.9	45.4	0.2	46.8	45.7	1.5	44.3	15	48
738	4.6	47.5	0.1	49.0	45.7	1.6	44.4	15	54
844	4.6	44.8	0.2	46.2	45.7	1.5	44.3	18	42
849	3.9	47.5	0.1	49.0	45.6	1.6	44.3	18	49
17	3.7	42.4	0.3	43.8	45.8	1.5	44.3	20	56
1030	5.3	40.9	0.3	42.3	45.7	1.4	44.2	21	29
57	4.2	46.9	0.2	48.4	45.7	1.6	44.3	22	1
1054	5.0	41.6	0.3	42.9	45.8	1.4	44.3	22	22
77	5.4	46.4	0.2	47.8	45.7	1.6	44.3	22	31
103	4.1	44.0	0.2	45.4	45.6	1.5	44.2	23	13
108	3.1	42.9	0.3	44.3	45.7	1.5	44.2	23	24
112	4.2	48.4	0.1	49.9	45.6	1.6	44.3	23	26
120	1.9	48.0	0.1	49.5	45.7	1.6	44.4	23	41

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 30	A LAT 32	LAT 30	B LAT 32	HRS	MIN		
942	4.0	220.8	-2.7	229.3	44.4	-1.6	45.7	0	32
1595	5.3	224.3	-2.8	222.9	44.3	-1.5	45.8	0	34
900	5.1	225.9	-2.8	224.3	44.3	-1.5	45.7	1	59
1222	4.9	231.2	-2.7	229.6	44.3	-1.7	45.6	3	4
1049	5.3	225.4	-2.8	223.9	44.2	-1.5	45.6	3	41
1080	5.3	225.4	-2.8	224.0	44.2	-1.5	45.7	4	55
1097	4.8	222.2	-2.9	220.9	44.3	-1.4	45.8	5	22
116	5.1	231.2	-2.6	229.7	44.4	-1.7	45.7	5	24
137	5.1	231.3	-2.6	229.8	44.4	-1.7	45.7	5	56
1111	5.3	230.4	-2.7	228.9	44.3	-1.6	45.6	6	11
1120	5.2	225.4	-2.8	224.0	44.2	-1.5	45.6	6	22
169	4.1	226.4	-2.8	224.9	44.3	-1.5	45.7	6	37
176	4.2	226.7	-2.8	225.3	44.3	-1.5	45.7	6	47
188	2.9	222.2	-2.9	220.8	44.2	-1.4	45.7	6	59
210	1.8	231.4	-2.6	229.9	44.4	-1.7	45.7	7	48
246	5.0	223.3	-2.9	222.0	44.3	-1.5	45.8	9	22
1175	5.0	231.3	-2.6	229.8	44.4	-1.7	45.6	8	45
1186	5.0	224.6	-2.8	223.2	44.3	-1.5	45.8	9	7
299	5.2	225.0	-2.8	223.6	44.4	-1.5	45.8	9	35
304	5.1	225.9	-2.8	224.4	44.2	-1.5	45.7	9	59
316	4.0	225.3	-2.8	223.9	44.3	-1.5	45.7	10	24
1230	5.2	226.4	-2.8	225.0	44.3	-1.5	45.7	10	50
1273	5.2	228.1	-2.7	226.7	44.3	-1.6	45.7	12	34
1292	4.6	226.2	-2.8	224.7	44.3	-1.5	45.8	13	17
493	4.5	221.6	-2.9	220.3	44.3	-1.4	45.9	15	0
545	4.0	221.0	-2.9	219.9	44.3	-1.4	45.8	16	32
533	5.0	229.2	-2.7	227.7	44.3	-1.6	45.6	16	35
585	3.6	226.6	-2.8	225.2	44.4	-1.5	45.8	17	51
605	3.0	223.3	-2.9	222.0	44.2	-1.5	45.7	19	12
603	3.0	225.0	-2.8	224.5	44.3	-1.5	45.7	19	14
1045	5.0	224.6	-2.8	223.3	44.3	-1.5	45.8	18	58
647	4.6	222.3	-2.9	221.0	44.2	-1.4	45.7	19	18
688	3.4	227.7	-2.7	226.2	44.4	-1.6	45.8	20	25
1080	5.4	229.5	-2.7	228.0	44.3	-1.6	45.6	20	37
1089	4.5	223.3	-2.9	221.9	44.3	-1.4	45.8	20	41
717	3.6	222.9	-2.9	221.5	44.3	-1.4	45.8	20	50
1509	5.2	227.6	-2.8	226.2	44.3	-1.6	45.6	21	34
1532	5.2	227.5	-2.8	226.1	44.4	-1.6	45.7	22	33
1543	4.6	222.2	-2.9	220.9	44.2	-1.4	45.7	22	39
809	3.1	221.0	-2.9	219.7	44.2	-1.4	45.8	23	20

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 30	A	LAT 32	LAT 30	E	LAT 32	HRS	MIN
1080	5.3	134.6	-2.8	136.0	44.3	1.5	45.7	0	56
116	5.1	128.9	-2.7	130.4	44.3	1.6	45.6	1	0
137	5.1	128.7	-2.6	130.2	44.4	1.7	45.7	1	31
1097	4.8	137.7	-2.9	139.0	44.3	1.4	45.8	1	57
1111	5.3	129.6	-2.7	131.1	44.4	1.6	45.6	1	59
1120	5.2	134.5	-2.8	135.9	44.3	1.5	45.7	2	23
169	4.1	133.4	-2.8	134.9	44.4	1.5	45.8	2	33
176	4.2	133.3	-2.8	134.7	44.3	1.5	45.7	2	42
188	2.9	137.6	-2.9	138.9	44.3	1.4	45.8	3	14
210	1.8	128.7	-2.7	130.3	44.3	1.7	45.6	3	23
1175	5.0	128.6	-2.6	130.2	44.4	1.7	45.7	4	20
246	5.0	136.7	-2.9	138.1	44.3	1.5	45.8	4	32
1186	5.0	135.6	-2.8	137.0	44.2	1.5	45.7	5	12
289	5.2	135.2	-2.8	136.6	44.3	1.5	45.7	5	36
304	5.1	134.1	-2.8	135.5	44.3	1.5	45.7	5	58
316	4.0	134.6	-2.8	136.0	44.3	1.5	45.7	6	25
1230	5.2	133.4	-2.8	134.8	44.4	1.5	45.8	6	46
1270	5.2	131.9	-2.7	133.4	44.3	1.6	45.7	8	23
1292	4.6	134.0	-2.8	135.5	44.2	1.5	45.6	9	15
490	4.5	138.4	-2.9	139.8	44.3	1.4	45.8	11	18
533	5.0	130.7	-2.7	132.2	44.4	1.6	45.7	12	19
545	4.0	138.8	-2.9	140.1	44.3	1.4	45.8	12	52
585	3.6	133.6	-2.8	135.1	44.2	1.5	45.6	13	47
603	3.0	134.2	-2.8	135.6	44.3	1.5	45.7	14	13
605	3.3	136.5	-2.9	137.9	44.3	1.5	45.8	14	22
1045	5.0	135.4	-2.8	136.7	44.3	1.5	45.8	15	2
647	4.6	137.7	-2.9	139.0	44.2	1.4	45.7	15	37
688	3.4	132.5	-2.8	133.9	44.3	1.6	45.7	16	16
1080	5.4	130.4	-2.7	131.9	44.3	1.6	45.7	16	20
1089	4.5	137.7	-2.9	138.2	44.2	1.4	45.7	16	52
717	3.6	137.4	-2.9	138.7	44.2	1.4	45.7	17	12
1509	5.2	132.3	-2.7	133.8	44.3	1.6	45.7	17	25
1533	5.1	132.7	-2.8	134.1	44.2	1.6	45.6	18	25
1543	4.6	137.7	-2.9	139.0	44.3	1.4	45.8	18	54
808	3.1	139.0	-2.9	140.3	44.3	1.4	45.8	19	41
842	4.0	129.4	-2.7	130.9	44.3	1.6	45.6	20	10
1595	5.3	135.8	-2.8	137.2	44.3	1.5	45.7	20	40
900	5.1	134.2	-2.8	135.6	44.3	1.5	45.7	21	57
1022	4.9	128.8	-2.7	130.4	44.3	1.7	45.6	22	40
1049	5.3	134.5	-2.8	135.9	44.3	1.5	45.7	23	42

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 32	A	LAT 34	LAT 32	B	LAT 34	HRS	MIN
758	4.3	319.8	0.2	318.5	45.7	-1.4	44.2	0	0
844	4.6	313.7	0.1	312.2	45.6	-1.5	44.2	2	12
17	3.7	316.0	0.1	314.6	45.7	-1.5	44.3	4	25
21	2.5	319.7	0.2	318.4	45.8	-1.4	44.3	4	27
1030	5.3	317.5	0.2	316.1	45.8	-1.4	44.3	4	56
57	4.2	311.5	0.0	310.0	45.6	-1.6	44.3	5	32
1054	5.0	316.9	0.1	315.5	45.7	-1.5	44.3	5	50
77	5.4	312.1	0.1	310.6	45.6	-1.6	44.3	6	2
99	4.0	318.9	0.2	317.5	45.7	-1.4	44.2	6	37
103	4.1	314.5	0.1	313.0	45.6	-1.5	44.3	6	42
108	3.1	315.5	0.1	314.1	45.8	-1.5	44.3	6	53
1157	4.9	318.7	0.2	317.4	45.7	-1.4	44.2	9	41
225	3.0	316.7	0.1	315.3	45.7	-1.5	44.3	9	47
307	4.9	312.9	0.0	311.4	45.7	-1.6	44.4	11	57
358	3.3	313.2	0.1	311.7	45.6	-1.5	44.3	13	21
394	4.8	319.2	0.2	317.9	45.7	-1.4	44.2	14	17
416	2.4	319.8	0.2	318.5	45.7	-1.4	44.2	14	48
447	2.5	316.0	0.1	314.6	45.7	-1.5	44.3	15	42
483	1.7	319.2	0.2	317.9	45.8	-1.4	44.3	16	41
497	2.4	317.7	0.2	316.4	45.8	-1.4	44.3	17	12
528	4.9	312.9	0.0	311.3	45.6	-1.6	44.3	18	5
531	4.1	313.4	0.1	312.0	45.6	-1.5	44.3	18	14
1397	5.2	317.2	0.2	315.8	45.7	-1.4	44.2	18	54
595	5.0	317.4	0.2	316.1	45.7	-1.4	44.3	19	46
653	3.0	314.0	0.1	312.5	45.7	-1.5	44.4	21	20
655	5.0	318.0	0.2	316.6	45.7	-1.4	44.2	21	20
657	5.0	319.0	0.2	316.6	45.7	-1.4	44.2	21	20
676	2.4	312.8	0.0	311.3	45.7	-1.6	44.3	21	46
726	4.0	315.4	0.1	314.0	45.7	-1.5	44.3	23	6
733	3.0	313.1	0.0	311.6	45.7	-1.5	44.3	23	19

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 32	A	LAT 34	LAT 32	B	LAT 34	HRS	MIN
1157	4.9	41.3	0.2	42.6	45.8	1.4	44.3	2	5
225	3.9	43.3	0.1	44.7	45.7	1.5	44.3	2	9
307	4.9	47.1	0.0	48.6	45.7	1.6	44.4	4	17
358	3.3	46.8	0.1	48.3	45.6	1.5	44.3	5	42
394	4.8	40.8	0.2	42.1	45.7	1.4	44.2	6	42
416	2.4	40.2	0.2	41.5	45.8	1.4	44.3	7	13
447	2.5	44.0	0.1	45.4	45.7	1.5	44.2	8	4
483	1.7	40.8	0.2	42.1	45.8	1.4	44.3	9	5
497	2.4	42.2	0.2	43.6	45.7	1.4	44.2	9	35
528	4.9	47.2	0.0	48.7	45.6	1.6	44.3	10	26
531	4.1	46.6	0.1	48.0	45.6	1.5	44.3	10	35
1397	5.2	42.8	0.2	44.2	45.7	1.4	44.3	11	17
595	5.0	42.6	0.2	43.9	45.7	1.4	44.2	12	9
653	3.0	46.0	0.1	47.5	45.7	1.5	44.4	13	40
655	5.0	42.0	0.2	43.4	45.8	1.4	44.3	13	43
657	5.0	42.0	0.2	43.4	45.8	1.4	44.3	13	43
676	2.4	47.2	0.0	48.7	45.7	1.6	44.4	14	6
726	4.0	44.6	0.1	46.0	45.7	1.5	44.3	15	27
733	3.9	46.9	0.0	48.4	45.7	1.5	44.4	15	39
758	4.3	40.2	0.2	41.5	45.8	1.4	44.3	16	25
844	4.6	46.3	0.1	47.8	45.7	1.5	44.3	18	33
17	3.7	44.0	0.1	45.4	45.7	1.5	44.2	20	47
21	5.5	40.3	0.2	41.6	45.7	1.4	44.2	20	52
1030	5.3	42.5	0.2	43.9	45.8	1.4	44.3	21	18
57	4.2	48.5	0.0	50.0	45.6	1.6	44.3	21	53
1054	5.0	43.1	0.2	44.5	45.7	1.5	44.3	22	12
77	5.4	47.9	0.0	49.4	45.7	1.6	44.4	22	22
99	4.0	41.1	0.2	42.5	45.8	1.4	44.3	23	1
103	4.1	45.5	0.1	47.0	45.7	1.5	44.4	23	3
108	3.1	44.5	0.1	45.9	45.7	1.5	44.3	23	10

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 32	A	LAT 34	LAT 32	B	LAT 34	HRS	MIN
827	3.2	229.4	-2.7	227.9	44.4	-1.6	45.7	0	13
842	4.1	226.3	-2.8	225.3	44.3	-1.5	45.7	0	23
950	4.1	229.7	-2.7	228.2	44.3	-1.6	45.6	0	43
961	5.1	221.5	-2.9	220.2	44.3	-1.4	45.8	1	48
1022	4.9	227.5	-2.8	226.0	44.3	-1.5	45.7	2	56
1049	5.3	221.1	-3.0	219.3	44.2	-1.4	45.7	3	31
1080	5.3	221.1	-3.0	219.9	44.2	-1.4	45.7	4	45
91	4.0	230.9	-2.7	229.4	44.4	-1.6	45.7	4	50
116	5.1	227.2	-2.8	225.8	44.2	-1.5	45.6	5	15
137	5.1	227.3	-2.8	225.9	44.2	-1.5	45.6	5	47
1101	4.4	231.1	-2.7	229.6	44.4	-1.6	45.7	5	48
1111	5.3	226.7	-2.8	225.3	44.4	-1.5	45.8	6	3
1120	5.2	221.1	-3.1	219.3	44.2	-1.4	45.7	6	12
169	4.1	222.1	-2.9	220.9	44.2	-1.4	45.7	6	27
176	4.2	222.4	-2.9	221.1	44.3	-1.4	45.7	6	37
1147	4.7	229.4	-2.7	227.9	44.4	-1.6	45.7	7	29
210	1.8	227.4	-2.8	226.0	44.3	-1.5	45.7	7	39
226	2.5	229.7	-2.7	228.2	44.4	-1.6	45.7	7	40
1161	5.3	231.6	-2.7	230.1	44.4	-1.6	45.7	8	11
1175	5.0	227.6	-2.8	226.1	44.4	-1.5	45.7	8	37
1197	4.1	229.3	-2.7	227.8	44.4	-1.6	45.7	9	19
304	5.1	221.5	-2.9	220.2	44.2	-1.4	45.7	9	49
316	4.0	221.0	-3.1	219.3	44.3	-1.4	45.8	10	14
1230	5.2	222.1	-2.9	220.9	44.2	-1.4	45.7	10	40
1250	4.1	228.0	-2.8	226.5	44.4	-1.5	45.7	11	44
1270	5.2	224.1	-2.9	222.8	44.3	-1.4	45.8	12	25
1292	4.6	221.9	-2.9	220.6	44.3	-1.4	45.8	13	7
427	4.5	228.0	-2.9	227.3	44.4	-1.6	45.7	13	43
460	4.1	228.9	-2.9	227.5	44.3	-1.6	45.6	14	26
51	3.4	229.1	-2.8	227.6	44.3	-1.6	45.6	15	41
513	5.1	225.2	-3.0	223.8	44.3	-1.5	45.7	16	26
585	3.6	222.3	-2.9	221.0	44.3	-1.4	45.8	17	41
613	3.0	221.6	-2.9	220.3	44.3	-1.4	45.8	18	4
688	3.4	223.4	-2.9	222.1	44.3	-1.4	45.7	20	15
1040	5.4	225.0	-2.9	224.4	44.4	-1.5	45.8	20	29
1509	5.2	223.6	-2.9	222.3	44.2	-1.4	45.8	21	25
756	3.4	228.3	-2.8	226.8	44.2	-1.5	45.7	22	16
1523	5.1	223.2	-2.9	221.9	44.3	-1.4	45.7	22	23

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 32	A	LAT 34	LAT 32	B	LAT 34	HRS	MIN
91	4.0	129.1	-2.7	130.7	44.4	1.6	45.7	0	27
1080	5.3	138.8	-3.0	140.1	44.3	1.4	45.8	1	6
116	5.1	132.6	-2.8	134.1	44.3	1.5	45.7	1	8
1101	4.4	128.9	-2.7	130.5	44.4	1.6	45.7	1	24
137	5.1	132.7	-2.8	134.1	44.2	1.5	45.6	1	40
1111	5.3	133.6	-2.8	135.0	44.2	1.5	45.6	1	59
1120	5.2	138.8	-3.0	140.1	44.3	1.4	45.8	2	33
169	4.1	137.7	-2.9	139.1	44.3	1.4	45.8	2	43
176	4.2	137.6	-2.9	138.9	44.3	1.4	45.7	2	52
1147	4.7	130.7	-2.8	132.2	44.3	1.6	45.6	3	13
206	2.5	130.3	-2.7	131.8	44.4	1.6	45.7	3	22
210	1.8	132.5	-2.8	133.9	44.3	1.5	45.7	3	31
1161	5.3	128.5	-2.7	130.0	44.4	1.6	45.6	3	45
1175	5.0	132.6	-2.8	134.1	44.2	1.5	45.6	4	29
1197	4.1	130.8	-2.8	132.3	44.3	1.6	45.7	5	3
304	5.1	138.4	-2.9	139.7	44.3	1.4	45.8	6	8
316	4.0	138.9	-3.0	140.2	44.3	1.4	45.8	6	35
1230	5.2	137.7	-2.9	139.0	44.3	1.4	45.8	6	56
1250	4.1	132.1	-2.8	133.6	44.3	1.5	45.7	7	34
1270	5.2	135.9	-2.9	137.3	44.3	1.4	45.7	8	32
1292	4.6	138.3	-2.9	139.7	44.2	1.4	45.7	9	25
437	4.5	131.3	-2.8	132.7	44.4	1.6	45.7	9	29
460	4.0	130.8	-2.7	132.3	44.4	1.6	45.7	10	11
501	3.4	130.8	-2.8	132.3	44.3	1.6	45.7	11	26
533	5.0	134.7	-2.9	136.1	44.3	1.5	45.7	12	28
585	3.6	137.9	-2.9	139.3	44.2	1.4	45.7	13	57
603	3.0	138.5	-2.9	139.8	44.2	1.4	45.7	14	23
688	3.4	136.5	-2.9	137.8	44.3	1.4	45.8	16	25
1080	5.4	134.4	-2.8	135.8	44.3	1.5	45.7	16	29
1509	5.2	136.3	-2.9	137.7	44.3	1.4	45.8	17	34
756	3.4	131.9	-2.8	133.3	44.3	1.5	45.6	18	5
1533	5.1	136.7	-2.9	138.1	44.3	1.4	45.8	18	34
827	3.2	137.8	-2.8	139.3	44.3	1.6	45.6	19	57
842	4.0	133.1	-2.8	134.6	44.3	1.5	45.7	20	18
950	4.1	134.1	-2.7	131.7	44.4	1.6	45.7	20	25
900	5.1	138.4	-2.9	139.8	44.3	1.4	45.8	22	7
1022	4.3	132.6	-2.8	134.0	44.3	1.5	45.7	22	48
1049	5.3	138.8	-3.0	140.1	44.3	1.4	45.8	23	5

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 34	A	LAT 36	LAT 34	B	LAT 36	HRS	MIN
758	4.3	318.4	0.1	317.0	45.7	-1.4	44.2	0	11
782	4.6	319.8	0.1	318.4	45.8	-1.3	44.3	0	43
844	4.6	312.2	-0.1	310.7	45.6	-1.5	44.3	2	21
899	4.8	319.6	0.1	318.3	45.7	-1.3	44.2	3	51
17	3.7	314.6	0.0	313.1	45.8	-1.5	44.4	4	35
21	2.5	318.2	0.1	316.9	45.8	-1.4	44.3	4	38
1030	5.3	316.0	0.0	314.6	45.9	-1.4	44.3	5	6
1054	5.0	315.4	0.0	314.0	45.8	-1.5	44.3	6	0
99	4.0	317.4	0.1	316.0	45.8	-1.4	44.3	6	48
103	4.1	313.3	-0.1	311.5	45.6	-1.5	44.3	6	51
108	3.1	314.1	0.0	312.6	45.7	-1.5	44.3	7	2
175	5.4	318.7	0.1	317.3	45.8	-1.4	44.3	8	45
1157	4.9	317.2	0.1	315.9	45.8	-1.4	44.3	9	52
225	3.9	315.2	0.0	313.8	45.8	-1.5	44.4	9	57
358	3.3	311.7	-0.1	310.2	45.7	-1.5	44.4	13	30
394	4.8	317.9	0.1	316.4	45.8	-1.4	44.3	14	28
398	5.2	319.3	0.1	317.7	45.8	-1.4	44.2	14	32
416	2.4	318.3	0.1	317.4	45.7	-1.4	44.3	14	59
447	2.5	314.6	0.0	313.1	45.6	-1.5	44.2	15	51
456	3.4	319.2	0.1	317.9	45.8	-1.4	44.3	16	13
483	1.7	317.7	0.1	316.4	45.8	-1.4	44.3	16	52
497	2.4	316.3	0.0	314.9	45.7	-1.4	44.3	17	22
531	4.1	312.3	-0.1	310.5	45.7	-1.5	44.4	18	23
1097	5.2	315.7	0.0	314.3	45.7	-1.4	44.2	19	4
595	5.0	316.0	0.0	314.6	45.7	-1.4	44.3	19	56
627	4.9	318.9	0.1	317.5	45.7	-1.4	44.2	20	47
653	3.0	312.5	-0.1	311.0	45.6	-1.5	44.3	21	28
655	5.0	316.5	0.0	315.1	45.7	-1.4	44.2	21	30
657	5.0	316.5	0.0	315.1	45.9	-1.4	44.4	21	31
671	3.9	318.9	0.1	317.5	45.7	-1.4	44.2	21	51
726	4.0	313.0	0.0	312.5	45.6	-1.5	44.3	23	15
733	3.9	311.6	-0.1	310.1	45.7	-1.5	44.4	23	29

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 34	A	LAT 36	LAT 34	B	LAT 36	HRS	MIN
927	3.2	225.3	-2.9	223.9	44.3	-1.4	45.8	0	4
942	4.0	227.4	-3.0	221.1	44.2	-1.4	45.7	0	13
1585	4.6	229.2	-2.9	227.7	44.3	-1.5	45.6	0	32
950	4.0	225.5	-2.9	224.2	44.2	-1.4	45.7	0	34
884	4.9	229.9	-2.8	227.4	44.3	-1.5	45.6	1	33
1620	4.6	230.2	-2.8	228.7	44.3	-1.6	45.6	1	51
122	4.9	223.1	-2.9	221.8	44.3	-1.4	45.7	2	46
91	4.0	226.9	-2.9	225.4	44.3	-1.5	45.7	4	41
116	5.1	223.2	-2.9	221.8	44.3	-1.4	45.8	5	6
137	5.1	223.3	-2.9	221.9	44.3	-1.4	45.8	5	39
1101	4.4	227.1	-2.8	225.7	44.3	-1.5	45.7	5	39
1111	5.3	222.1	-3.0	220.8	44.2	-1.4	45.7	5	52
1123	5.5	229.5	-2.8	228.0	44.4	-1.5	45.7	6	36
1147	4.7	225.4	-2.9	224.0	44.3	-1.4	45.7	7	20
210	1.8	273.1	-2.9	221.7	44.2	-1.4	45.7	7	29
206	2.5	225.7	-2.9	224.2	44.4	-1.4	45.8	7	31
1161	5.3	227.6	-2.8	226.1	44.3	-1.5	45.7	8	2
1175	5.0	223.3	-2.9	221.9	44.3	-1.4	45.7	8	27
1187	4.1	225.3	-2.9	223.9	44.4	-1.4	45.8	9	10
1205	5.1	231.7	-2.7	229.2	44.4	-1.6	45.7	10	2
1250	4.1	223.6	-2.9	222.3	44.3	-1.4	45.7	11	34
437	4.5	224.5	-2.9	223.1	44.3	-1.4	45.7	13	33
445	3.9	230.9	-2.7	229.2	44.4	-1.6	45.7	14	1
460	4.0	224.9	-2.9	223.5	44.3	-1.4	45.7	14	17
501	3.4	225.0	-2.9	223.6	44.3	-1.4	45.7	15	32
516	4.3	230.3	-3.0	228.8	44.4	-1.6	45.7	16	11
533	5.0	222.0	-3.0	219.6	44.3	-1.3	45.8	16	16
547	3.9	231.0	-3.0	229.4	44.4	-1.6	45.7	16	57
1427	4.8	228.9	-2.8	227.3	44.3	-1.5	45.7	18	28
1480	5.4	221.1	-3.0	219.8	44.2	-1.3	45.8	20	18
746	4.0	228.6	-2.8	227.1	44.4	-1.5	45.7	21	58
756	3.4	224.3	-2.9	222.8	44.3	-1.4	45.8	22	7

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 34	A	LAT 36	LAT 34	B	LAT 36	HRS	MIN
175	5.4	41.3	0.1	42.7	45.7	1.4	44.3	0	48
1157	4.9	42.8	0.1	44.1	45.7	1.4	44.2	1	55
225	3.9	44.8	0.0	46.2	45.7	1.5	44.3	1	59
358	3.3	48.3	-0.1	49.8	45.7	1.5	44.4	5	33
394	4.8	42.2	0.1	43.6	45.7	1.4	44.3	6	31
398	5.2	40.7	0.1	42.0	45.7	1.4	44.2	6	36
416	2.4	41.7	0.1	43.0	45.8	1.4	44.3	7	2
447	2.5	45.4	0.0	46.9	45.7	1.5	44.3	7	54
456	3.4	40.8	0.1	42.1	45.8	1.4	44.3	8	16
483	1.7	42.3	0.1	43.6	45.7	1.4	44.2	8	55
497	2.4	43.7	0.0	45.1	45.8	1.4	44.4	9	24
531	4.1	48.0	-0.1	49.5	45.7	1.5	44.4	10	26
1397	5.2	44.3	0.0	45.7	45.7	1.4	44.3	11	7
595	5.0	44.0	0.0	45.4	45.7	1.4	44.2	11	59
627	4.9	41.2	0.1	42.5	45.7	1.4	44.2	12	47
653	3.0	47.5	-0.1	49.0	45.7	1.5	44.4	13	31
655	5.0	43.5	0.0	44.9	45.7	1.4	44.3	13	33
657	5.0	43.5	0.0	44.9	45.8	1.4	44.3	13	33
671	3.9	41.1	0.1	42.5	45.7	1.4	44.2	13	55
726	4.0	46.1	0.0	47.5	45.7	1.5	44.3	15	18
733	3.9	48.4	-0.1	49.9	45.6	1.5	44.3	15	31
758	4.3	41.6	0.1	43.0	45.7	1.4	44.2	16	15
782	4.6	40.2	0.1	41.6	45.7	1.3	44.2	16	47
844	4.6	47.8	-0.1	49.3	45.7	1.5	44.4	18	24
899	4.8	40.4	0.1	41.7	45.8	1.3	44.3	19	55
17	3.7	45.4	0.0	46.9	45.7	1.5	44.3	20	37
21	2.5	41.8	0.1	43.1	45.7	1.4	44.3	20	41
1039	5.3	44.0	0.0	45.4	45.7	1.4	44.3	21	8
1054	5.0	44.6	0.0	46.0	45.7	1.5	44.3	22	2
99	4.0	42.6	0.1	44.0	45.7	1.4	44.2	22	51
103	4.1	47.0	-0.1	48.5	45.7	1.5	44.4	22	54
108	3.1	45.5	0.0	47.4	45.6	1.5	44.3	23	5

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 34	A	LAT 36	LAT 34	B	LAT 36	HRS	MIN
91	4.0	133.2	-2.9	134.6	44.3	1.5	45.7	0	36
116	5.1	137.0	-2.9	138.3	44.2	1.4	45.7	1	18
1101	4.4	133.0	-2.9	134.4	44.3	1.5	45.7	1	33
137	5.1	136.7	-2.9	138.1	44.3	1.4	45.8	1	49
1111	5.3	137.9	-3.0	139.2	44.2	1.4	45.7	2	9
1123	5.5	130.5	-2.8	132.7	44.4	1.5	45.7	2	19
1147	4.7	134.8	-2.9	136.2	44.2	1.4	45.7	3	22
206	2.5	134.4	-2.9	135.8	44.4	1.4	45.8	3	31
210	1.8	136.8	-2.9	138.1	44.3	1.4	45.7	3	41
1161	5.3	132.5	-2.8	134.0	44.2	1.5	45.6	3	54
1175	5.0	136.7	-2.9	138.0	44.3	1.4	45.8	4	18
1187	4.1	134.8	-2.9	136.2	44.3	1.4	45.7	5	12
1205	5.1	129.5	-2.8	131.0	44.3	1.6	45.6	5	40
1250	4.1	136.5	-2.9	137.8	44.2	1.4	45.7	7	44
445	3.8	129.4	-2.8	130.9	44.3	1.6	45.6	9	39
437	4.5	135.6	-2.9	137.0	44.2	1.4	45.7	9	39
460	4.0	135.2	-2.9	136.6	44.2	1.4	45.7	10	21
501	3.4	134.9	-2.9	136.3	44.3	1.4	45.7	11	35
516	4.3	129.9	-2.8	131.4	44.3	1.6	45.6	11	51
547	3.8	129.2	-2.8	130.7	44.3	1.6	45.6	12	34
533	5.0	139.3	-3.0	140.6	44.2	1.3	45.7	12	39
1427	4.8	131.1	-2.8	132.6	44.3	1.5	45.7	14	14
1480	5.4	138.8	-3.0	140.1	44.3	1.3	45.8	16	39
746	4.0	131.4	-2.8	132.9	44.3	1.5	45.7	17	45
756	3.4	135.9	-2.9	137.3	44.3	1.4	45.7	18	14
827	3.2	134.8	-2.9	136.2	44.3	1.4	45.7	20	6
1585	4.6	130.6	-2.8	132.1	44.4	1.5	45.7	20	16
844	4.0	137.5	-3.0	138.8	44.3	1.4	45.8	20	28
850	4.1	134.2	-2.9	135.6	44.3	1.5	45.8	20	34
884	4.9	130.8	-2.8	132.3	44.4	1.5	45.7	21	18
1620	4.6	129.8	-2.8	131.3	44.3	1.6	45.6	21	31
1022	4.9	136.9	-2.9	138.2	44.3	1.4	45.7	22	58

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 39	A	LAT 40	B	LAT 39	B	LAT 40	HRS MIN
758	4.3	315.7	-0.2	314.3	45.7	-1.4	44.3	0	32
782	4.6	317.2	-0.2	315.8	45.7	-1.3	44.3	1	5
836	3.6	318.0	-0.1	316.6	45.8	-1.3	44.3	2	31
847	4.0	318.3	-0.1	316.9	45.7	-1.3	44.3	2	49
899	4.6	317.0	-0.2	315.6	45.7	-1.3	44.2	4	13
2	2.4	319.3	-0.1	318.0	45.7	-1.3	44.2	4	29
17	3.7	311.9	-0.3	310.4	45.7	-1.5	44.4	4	53
21	2.5	315.6	-0.2	314.2	45.8	-1.4	44.3	4	59
1030	5.3	311.4	-0.3	311.9	45.7	-1.4	44.3	5	25
1154	5.0	312.8	-0.3	311.3	45.7	-1.4	44.4	6	19
90	4.0	314.8	-0.2	311.3	45.7	-1.4	44.3	7	8
108	3.1	311.4	-0.3	309.9	45.6	-1.5	44.3	7	20
175	5.4	316.1	-0.2	314.7	45.7	-1.4	44.3	9	6
1157	4.9	314.6	-0.3	313.2	45.7	-1.4	44.3	10	12
225	3.9	312.6	-0.3	311.1	45.6	-1.4	44.3	10	15
237	4.4	319.3	-0.1	318.0	45.8	-1.3	44.3	10	39
292	5.0	318.9	-0.1	317.6	45.7	-1.3	44.2	12	2
268	3.9	319.4	-0.1	318.1	45.9	-1.3	44.3	14	11
294	4.8	315.1	-0.2	313.7	45.6	-1.4	44.2	14	48
298	5.2	316.7	-0.2	315.3	45.9	-1.3	44.3	14	54
416	2.4	315.7	-0.2	314.3	45.7	-1.4	44.3	15	20
447	2.5	312.0	-0.3	310.4	45.7	-1.5	44.4	16	10
456	3.4	316.6	-0.2	315.2	45.7	-1.4	44.2	16	34
467	5.4	318.6	-0.1	317.2	45.8	-1.3	44.3	16	50
493	1.7	315.1	-0.2	313.7	45.7	-1.4	44.3	17	12
497	2.4	313.7	-0.2	312.2	45.6	-1.4	44.3	17	41
1207	5.2	313.1	-0.3	311.7	45.7	-1.4	44.4	19	24
571	3.5	319.3	-0.1	318.1	45.7	-1.3	44.2	19	45
595	5.0	313.4	-0.3	311.9	45.6	-1.4	44.3	20	15
598	4.1	319.7	-0.1	317.4	45.7	-1.3	44.2	20	22
627	4.9	316.0	-0.2	314.6	45.3	-1.4	44.4	21	5
655	5.0	313.0	-0.2	312.4	45.7	-1.4	44.3	21	50
657	5.1	313.0	-0.2	312.4	45.7	-1.4	44.3	21	50
671	3.9	316.3	-0.2	314.9	45.7	-1.4	44.3	22	13
707	4.9	319.8	-0.1	319.4	45.8	-1.3	44.2	23	12

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 39	A	LAT 40	B	LAT 39	B	LAT 40	HRS MIN
175	5.4	43.9	-0.2	45.4	45.7	1.4	44.3	0	27
1157	4.9	45.4	-0.2	46.8	45.8	1.4	44.4	1	34
225	3.9	47.4	-0.3	48.9	45.7	1.4	44.4	1	40
237	4.4	40.7	-0.1	42.1	45.7	1.3	44.2	1	57
292	5.0	41.1	-0.1	42.4	45.7	1.3	44.2	3	21
368	3.9	40.6	-0.1	41.9	45.7	1.3	44.2	5	29
394	4.8	44.8	-0.2	46.3	45.7	1.4	44.3	6	10
398	5.2	43.3	-0.2	44.7	45.7	1.3	44.3	6	14
416	2.4	44.3	-0.2	45.7	45.7	1.4	44.3	6	41
447	2.5	48.1	-0.3	45.6	45.6	1.5	44.3	7	36
456	3.4	43.4	-0.2	44.8	45.7	1.4	44.2	7	55
467	5.4	41.4	-0.1	42.8	45.8	1.3	44.3	8	8
483	1.7	44.9	-0.2	46.3	45.7	1.3	44.3	8	34
497	2.4	46.3	-0.2	47.8	45.7	1.4	44.3	9	5
1397	5.2	46.9	-0.3	48.4	45.7	1.4	44.3	10	48
571	3.5	40.7	-0.1	42.0	45.7	1.3	44.2	11	4
595	5.0	46.6	-0.3	48.1	45.7	1.4	44.4	11	39
598	4.1	41.3	-0.1	42.6	45.7	1.3	44.2	11	41
627	4.9	43.8	-0.2	45.2	45.8	1.4	44.3	12	25
655	5.0	46.1	-0.2	47.5	45.8	1.4	44.4	13	13
657	5.0	46.1	-0.2	47.6	45.6	1.4	44.3	13	14
671	3.9	43.7	-0.2	45.1	45.7	1.4	44.2	13	34
707	4.9	40.2	-0.1	41.6	45.7	1.3	44.2	14	30
758	4.3	44.3	-0.2	45.7	45.6	1.4	44.2	15	54
782	4.6	42.8	-0.2	44.2	45.7	1.3	44.2	16	25
836	3.6	42.0	-0.1	43.4	45.7	1.3	44.2	17	50
847	4.0	41.7	-0.1	43.1	45.7	1.3	44.2	18	8
899	4.8	43.0	-0.2	44.4	45.8	1.3	44.3	19	33
2	2.4	40.7	-0.1	42.0	45.8	1.3	44.3	19	47
17	3.7	48.1	-0.3	45.6	45.6	1.5	44.3	20	19
21	2.5	44.4	-0.2	45.9	45.7	1.4	44.3	20	20
1030	5.3	46.6	-0.3	48.1	45.7	1.4	44.3	21	49
1054	5.0	47.2	-0.3	48.7	45.7	1.4	44.4	21	43
99	4.0	45.2	-0.2	46.7	45.8	1.4	44.4	22	39
108	3.1	48.6	-0.3	50.1	45.6	1.5	44.3	22	47

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 39	A	LAT 40	B	LAT 39	B	LAT 40	HRS MIN
1602	4.6	227.0	-2.9	225.5	44.3	-1.4	45.7	1	6
878	3.9	225.6	-2.9	224.2	44.3	-1.4	45.7	1	16
1620	4.6	221.4	-3.0	220.1	44.2	-1.3	45.7	1	31
1034	5.3	226.5	-2.9	225.1	44.4	-1.4	45.8	3	19
65	4.4	225.4	-3.0	224.0	44.3	-1.4	45.7	3	52
56	4.7	231.1	-3.8	229.6	44.4	-1.5	45.7	3	53
1072	5.0	231.4	-3.8	229.8	44.4	-1.5	45.7	4	48
107	2.8	227.7	-3.9	226.2	44.3	-1.4	45.7	5	6
1093	5.0	225.9	-2.9	224.5	44.3	-1.4	45.7	5	19
180	3.9	223.6	-3.0	222.1	44.2	-1.3	45.7	6	48
204	4.5	229.2	-3.0	227.7	44.4	-1.5	45.7	8	31
259	4.7	223.6	-3.0	222.2	44.3	-1.3	45.7	8	42
1205	5.1	222.0	-3.0	220.6	44.3	-1.3	45.8	9	42
291	0.5	220.9	-2.8	220.2	44.3	-1.5	45.6	9	50
1224	4.5	226.2	-2.9	224.8	44.3	-1.4	45.7	10	39
247	3.8	223.4	-3.0	222.0	44.2	-1.3	45.7	11	9
1240	4.8	229.4	-2.9	227.9	44.3	-1.5	45.6	11	46
1284	5.1	227.1	-2.9	225.6	44.4	-1.4	45.7	13	3
1297	5.2	224.0	-3.0	222.5	44.2	-1.4	45.7	13	25
445	3.8	222.0	-3.0	220.7	44.2	-1.3	45.7	13	41
1317	5.1	226.3	-2.9	224.9	44.3	-1.4	45.7	14	21
484	3.7	226.3	-2.9	224.9	44.2	-1.4	45.6	14	56
1351	4.9	226.0	-2.9	224.5	44.2	-1.4	45.6	15	36
516	4.3	221.5	-3.0	220.2	44.3	-1.3	45.8	15	51
547	3.8	222.2	-3.0	220.9	44.2	-1.3	45.7	16	37
562	5.4	233.2	-2.9	228.9	44.4	-1.5	45.7	17	25
588	3.9	229.1	-2.9	227.6	44.4	-1.5	45.7	17	58
1050	4.4	228.1	-2.9	226.5	44.3	-1.4	45.7	19	31
668	3.7	224.4	-3.0	223.0	44.3	-1.3	45.7	19	44
665	2.9	229.2	-2.9	227.8	44.4	-1.5	45.7	19	51
677	4.1	224.0	-3.0	222.5	44.3	-1.4	45.7	19	58
1476	4.9	226.1	-2.9	224.7	44.3	-1.4	45.7	20	21
709	4.5	228.1	-2.9	226.6	44.3	-1.4	45.7	21	1
730	3.4	225.4	-3.0	224.0	44.1	-1.4	45.8	21	24
1531	5.4	231.9	-2.9	229.3	44.4	-1.5	45.6	22	38
800	4.1	221.5	-2.9	220.0	44.3	-1.5	45.6	23	26
1574	5.5	223.0	-3.0	221.5	44.2	-1.3	45.7	23	42

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 39	A	LAT 40	B	LAT 39	B	LAT 40	HRS MIN
1072	5.0	128.7	-2.8	130.3	44.3	1.5	45.6	0	22
107	2.8	132.2	-2.9	133.6	44.4	1.4	45.7	0	56
1093	5.0	134.2	-2.9	135.6	44.3	1.4	45.7	1	18
180	3.9	136.4	-3.0	137.8	44.3	1.3	45.8	2	58
244	4.5	131.0	-2.9	132.5	44.3	1.5	45.6	4	15
258	4.7	136.5	-3.0	137.9	44.2	1.3	45.7	4	52
291	0.5	129.1	-2.8	130.6	44.4	1.5	45.7	5	26
1205	5.1	137.9	-3.0	139.3	44.3	1.3	45.8	5	59
1224	4.5	133.7	-2.9	135.1	44.4	1.4	45.8	6	36
347	3.8	136.4	-3.0	137.8	44.3	1.3	45.8	7	18
1249	4.8	130.4	-2.8	131.9	44.4	1.5	45.7	7	28
1284	5.1	132.9	-2.9	134.4	44.4	1.4	45.7	8	56
1297	5.2	134.9	-3.0	136.3	44.3	1.4	45.8	9	28
445	3.8	137.9	-3.0	139.2	44.3	1.3	45.8	9	58
1317	5.1	133.8	-2.9	135.2	44.3	1.4	45.7	10	18
484	3.7	133.7	-2.9	135.1	44.3	1.4	45.7	10	53
1351	4.9	133.0	-2.9	134.4	44.3	1.4	45.7	11	30
516	4.3	138.7	-3.0	140.0	44.2	1.3	45.7	12	11
547	3.8	137.7	-3.0	139.0	44.3	1.3	45.8	12	53
562	5.4	129.9	-2.8	131.4	44.3	1.5	45.6	13	4
588	3.9	136.4	-2.9	132.5	44.3	1.4	45.7	13	42
1459	4.4	132.0	-2.9	133.4	44.1	1.4	45.7	15	20
665	2.9	130.8	-2.9	132.3	44.4	1.5	45.7	15	34
668	3.7	135.7	-3.0	137.1	44.3	1.3	45.7	15	50
677	4.3	135.0	-3.0	136.4	44.3	1.4	45.8	16	1
1476	4.9	134.0	-2.9	135.4	44.3	1.4	45.7	16	19
709	4.5	131.7	-2.9	133.2	44.4	1.4	45.7	16	45
730	3.4	134.6	-3.0	136.0	44.3	1.4	45.8	17	25
1531	5.4	129.1	-2.8	130.6	44.4	1.5	45.7	18	10
800	4.1	129.6	-2.8	131.1	44.3	1.5	45.6	19	4
1574	5.5	136.1	-3.0	137.3	44.3	1.3	45.7	19	50
1602	4.6	133.1	-2.9	134.6	44.3	1.4	45.7	21	0
978	3.9	134.4	-2.9	135.8	44.3	1.4	45.8	21	16
1620	4.6	138.6	-3.0	139.9	44.2	1.3	45.7	21	51
1034	5.3	133.6	-2.9	135.0	44.3	1.4	45.7	23	15
56	4.7	129.3	-2.8	130.5	44.4	1.5	45.6	23	28
65	4.8	134.6	-3.0	136.0	44.3	1.4	45.7	23	55

NW. QUADRANT

CATNO	MAG	A2140TH				Z.D		L.S.T	
		LAT 40	A	LAT 42	LAT 40	B	LAT 42	HRS	MIN
758	4.3	314.6	-0.3	313.2	45.8	-1.4	44.4	1	43
782	4.6	316.9	-0.3	314.6	45.8	-1.3	44.3	1	16
836	3.6	316.9	-0.3	315.5	45.8	-1.3	44.3	2	42
847	4.0	317.2	-0.3	315.8	45.7	-1.3	44.3	3	7
999	4.8	315.9	-0.3	310.4	45.7	-1.3	44.3	4	24
2	2.4	319.2	-0.3	316.8	45.8	-1.3	44.3	4	41
21	2.5	314.5	-0.3	313.1	45.7	-1.4	44.3	5	9
1030	5.3	312.2	-0.4	310.7	45.6	-1.4	44.3	5	34
49	2.8	319.7	-0.2	319.4	45.7	-1.2	44.2	5	58
1054	5.0	311.6	-0.4	310.1	45.7	-1.4	44.4	6	28
99	4.0	313.6	-0.4	312.2	45.7	-1.4	44.3	7	18
122	4.4	319.4	-0.2	318.0	45.8	-1.2	44.3	9	1
175	5.4	314.9	-0.3	313.5	45.7	-1.4	44.3	9	16
1157	4.9	313.5	-0.4	312.0	45.7	-1.4	44.4	10	22
225	3.9	311.5	-0.4	310.0	45.7	-1.4	44.4	10	25
237	4.4	319.2	-0.2	316.9	45.7	-1.3	44.2	10	50
292	5.0	317.9	-0.3	316.4	45.8	-1.3	44.3	12	14
368	3.9	319.3	-0.2	317.0	45.7	-1.3	44.2	14	22
394	4.8	314.0	-0.3	312.5	45.6	-1.4	44.3	14	58
398	5.2	315.5	-0.3	314.1	45.7	-1.3	44.3	15	4
416	2.4	314.6	-0.3	313.1	45.7	-1.4	44.3	15	30
456	3.4	315.5	-0.3	314.1	45.7	-1.3	44.3	16	45
467	5.4	317.4	-0.3	316.1	45.7	-1.3	44.3	17	1
483	1.7	314.0	-0.3	312.5	45.7	-1.4	44.3	17	27
497	2.4	312.5	-0.4	311.0	45.7	-1.4	44.4	17	51
500	5.4	319.6	-0.2	318.3	45.7	-1.2	44.2	18	1
1097	5.2	311.9	-0.2	310.4	45.7	-1.4	44.4	19	33
571	3.5	318.2	-0.2	316.8	45.7	-1.3	44.3	19	57
595	5.0	312.2	-0.4	310.7	45.7	-1.4	44.4	20	25
598	4.1	317.6	-0.3	316.2	45.8	-1.3	44.3	20	34
627	4.9	315.1	-0.3	313.6	45.7	-1.3	44.3	21	15
655	5.0	312.9	-0.4	311.3	45.7	-1.4	44.4	22	3
657	5.0	312.7	-0.4	311.3	45.7	-1.4	44.4	22	0
671	3.9	315.1	-0.3	313.7	45.7	-1.3	44.3	22	23
707	4.9	318.6	-0.2	317.3	45.9	-1.3	44.2	23	20

SW. QUADRANT

CAT NO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 40 A	LAT 42	LAT 40 B	LAT 42	HRS	MIN		
934	3.7	228.3	-2.9	227.3	44.4	-1.4	45.7	0	17
1632	4.6	227.2	-3.1	227.9	44.2	-1.3	45.7	1	55
1614	4.5	229.9	-2.9	227.5	44.3	-1.4	45.6	1	35
992	4.3	227.2	-2.9	225.8	44.3	-1.4	45.7	1	43
962	4.2	228.2	-2.9	228.6	44.3	-1.4	45.6	2	8
1034	5.3	221.8	-3.1	222.5	44.3	-1.2	45.8	3	9
56	4.7	227.1	-2.9	225.5	44.4	-1.4	45.8	3	40
1172	5.1	227.2	-2.9	225.8	44.4	-1.4	45.7	4	19
167	2.8	223.0	-3.1	221.6	44.2	-1.3	45.7	4	55
1292	5.6	221.2	-2.9	219.9	44.3	-1.2	45.9	5	9
1198	5.4	229.3	-2.9	226.8	44.3	-1.4	45.6	5	51
151	3.9	229.4	-2.9	226.9	44.4	-1.4	45.7	6	0
179	3.8	227.2	-2.9	225.7	44.3	-1.4	45.6	6	54
113	3.3	223.8	-2.9	229.2	44.4	-1.4	45.7	7	1
224	1.7	229.3	-2.9	227.8	44.4	-1.4	45.7	7	33
244	4.5	224.8	-3.1	223.4	44.3	-1.3	45.7	8	21
291	5.5	226.6	-3.1	225.2	44.3	-1.4	45.7	9	41
1224	4.5	221.4	-3.1	220.1	44.3	-1.2	45.8	10	29
223	4.2	227.8	-2.9	226.4	44.2	-1.4	45.7	10	42
324	2.3	228.4	-2.9	226.9	44.3	-1.4	45.6	11	1
1249	4.8	225.2	-3.1	223.6	44.2	-1.3	45.7	11	36
1284	5.1	222.3	-3.1	221.0	44.3	-1.3	45.8	12	52
427	4.1	229.8	-2.9	227.4	44.4	-1.4	45.7	13	28
1322	4.2	229.2	-2.9	228.4	44.3	-1.4	45.6	13	55
1317	5.1	221.6	-3.1	220.3	44.2	-1.2	45.8	14	10
1311	4.6	221.3	-2.9	228.8	44.4	-1.4	45.7	14	11
494	3.7	221.6	-3.1	220.2	44.2	-1.2	45.7	14	45
1344	5.1	227.4	-2.9	225.9	44.3	-1.4	45.7	15	21
1351	4.9	222.5	-3.1	221.2	44.2	-1.3	45.8	15	25
1375	5.1	228.2	-2.9	226.6	44.3	-1.4	45.6	16	29
562	5.4	225.8	-2.9	224.4	44.2	-1.3	45.7	17	15
588	3.9	224.7	-3.1	223.3	44.3	-1.3	45.8	17	43
582	2.9	229.7	-2.9	228.2	44.4	-1.4	45.7	17	53
1459	4.6	223.6	-3.1	222.2	44.3	-1.3	45.8	19	21
665	2.9	224.5	-2.9	223.1	44.2	-1.3	45.8	19	43
1476	4.9	221.4	-3.1	220.1	44.2	-1.2	45.8	20	19
719	4.5	223.7	-2.9	222.3	44.3	-1.3	45.8	20	51
749	3.9	229.2	-2.9	227.7	44.2	-1.4	45.6	22	2
1531	5.4	226.7	-2.9	225.2	44.4	-1.4	45.7	22	25
805	4.1	226.4	-3.1	224.9	44.4	-1.3	45.6	23	11

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D.			L. S. T.	
		LAT 40	A	LAT 42	LAT 40	B	LAT 42	HRS	MIN
175	5.4	45.1	-0.3	46.5	45.8	1.4	44.4	0	16
1157	4.9	46.5	-0.4	48.0	45.6	1.4	44.3	1	25
225	3.9	48.5	-0.4	50.1	45.7	1.4	44.4	1	31
237	4.4	41.8	-0.3	43.2	45.8	1.3	44.3	1	45
292	5.0	42.2	-0.3	43.6	45.7	1.3	44.3	3	9
369	3.9	41.7	-0.2	43.0	45.7	1.3	44.3	5	17
394	4.8	46.0	-0.3	47.4	45.7	1.4	44.4	6	0
398	5.2	44.4	-0.3	45.8	45.8	1.3	44.4	6	3
416	2.4	45.4	-0.3	46.9	45.7	1.4	44.3	6	31
456	3.4	44.5	-0.3	45.9	45.7	1.3	44.3	7	44
467	5.4	42.6	-0.3	43.9	45.7	1.3	44.3	7	57
483	1.7	46.0	-0.3	47.5	45.7	1.4	44.3	8	24
500	5.4	40.4	-0.2	41.7	45.8	1.2	44.3	8	54
497	2.4	47.5	-0.4	49.0	45.7	1.4	44.4	8	55
1397	5.2	48.1	-0.4	49.6	45.6	1.4	44.3	10	39
571	3.5	41.8	-0.2	43.2	45.7	1.3	44.3	10	52
598	4.1	42.4	-0.3	43.8	45.8	1.3	44.3	11	29
595	5.0	47.8	-0.4	49.3	45.7	1.4	44.3	11	30
627	4.9	45.0	-0.3	46.4	45.7	1.3	44.3	12	15
655	5.4	47.3	-0.4	48.7	45.7	1.4	44.3	13	4
657	5.0	47.3	-0.4	48.8	45.7	1.4	44.3	13	4
671	3.9	44.9	-0.3	46.3	45.7	1.3	44.3	13	23
707	4.9	41.4	-0.2	42.7	45.7	1.3	44.3	14	18
758	4.3	45.4	-0.3	46.8	45.7	1.4	44.4	15	43
792	4.6	44.0	-0.3	45.4	45.7	1.3	44.3	16	14
836	3.6	43.1	-0.3	44.5	45.7	1.3	44.2	17	39
847	4.0	42.8	-0.3	44.2	45.7	1.3	44.2	17	57
899	4.8	44.2	-0.3	45.6	45.7	1.3	44.3	19	23
2	2.4	41.8	-0.2	43.2	45.7	1.3	44.2	19	36
21	2.5	45.5	-0.3	47.0	45.7	1.4	44.3	20	11
1030	5.3	47.8	-0.4	49.3	45.7	1.4	44.4	20	39
48	2.8	40.0	-0.2	41.6	45.7	1.2	44.2	21	51
1054	5.0	48.4	-0.4	49.9	45.7	1.4	44.4	21	34
99	4.7	46.4	-0.4	47.8	45.8	1.4	44.4	22	20
122	4.4	42.6	-0.2	42.0	45.8	1.2	44.3	22	51

SE. QUADRANT

CATNO	MAG	RIGHT ASC			Z. I	L. S. T			
		LAT 40	LAT 42	LAT 44		HRS	MIN		
1072	5.0	132.9	-2.9	134.3	44.3	1.4	45.7	1	31
1077	2.8	136.9	-3.0	138.2	44.3	1.2	45.7	1	39
1093	5.0	138.9	-3.1	140.2	44.2	1.2	45.8	1	39
1104	5.0	131.7	-2.9	132.1	44.3	1.4	45.7	1	38
151	3.0	131.9	-2.9	133.3	44.3	1.4	45.6	1	55
1134	3.3	129.4	-2.9	130.9	44.3	1.4	45.6	2	37
179	3.8	132.7	-2.9	134.2	44.3	1.4	45.7	2	46
201	1.7	130.7	-2.9	132.2	44.4	1.4	45.7	3	15
244	4.5	135.4	-3.0	136.8	44.2	1.3	45.7	4	25
291	0.5	133.5	-3.0	134.9	44.3	1.4	45.7	5	36
1223	4.2	131.1	-2.9	132.6	44.3	1.4	45.7	6	31
334	3.3	131.4	-2.9	132.9	44.4	1.4	45.7	6	47
1224	4.5	138.7	-3.1	140.0	44.2	1.2	45.7	6	46
1249	4.8	134.8	-3.0	136.2	44.3	1.3	45.8	7	39
1284	5.1	137.6	-3.0	139.0	44.3	1.3	45.8	9	7
427	4.1	131.1	-2.9	132.6	44.4	1.4	45.7	9	12
1302	4.2	129.9	-2.9	131.4	44.4	1.4	45.7	9	34
1311	4.6	129.8	-2.9	131.3	44.3	1.4	45.6	9	49
1317	5.1	138.5	-3.1	135.8	44.3	1.2	45.8	10	29
488	3.7	138.4	-3.1	139.7	44.2	1.2	45.7	11	4
1344	5.0	132.6	-2.9	134.0	44.4	1.4	45.7	11	12
1351	4.9	127.7	-3.1	129.1	44.2	1.3	45.7	11	41
1375	5.1	131.8	-2.9	133.3	44.3	1.4	45.7	12	17
562	5.4	134.0	-3.0	135.5	44.4	1.3	45.8	13	13
582	2.8	130.5	-2.9	132.0	44.3	1.4	45.6	13	24
598	3.8	135.4	-3.0	136.8	44.3	1.3	45.7	13	52
1459	4.4	126.4	-3.0	127.8	44.3	1.3	45.8	15	30
665	2.9	135.2	-3.0	136.6	44.4	1.3	45.8	15	44
1476	4.9	128.7	-3.1	140.0	44.3	1.2	45.8	16	39
709	4.5	136.5	-3.0	137.8	44.2	1.3	45.7	17	0
749	3.9	120.6	-2.9	132.1	44.4	1.4	45.7	17	45
1531	5.4	133.5	-3.0	135.0	44.2	1.4	45.7	19	20
900	4.1	132.7	-3.0	135.2	44.3	1.3	45.7	19	13
934	3.7	131.4	-2.9	132.9	44.3	1.4	45.6	20	2
1602	4.6	137.8	-3.1	139.2	44.2	1.2	45.7	21	11
1614	4.5	131.0	-2.9	132.5	44.3	1.4	45.6	21	19
902	4.3	122.8	-2.9	124.3	44.2	1.4	45.7	21	35
902	4.0	129.7	-2.9	131.2	44.4	1.4	45.7	21	47
1024	5.3	138.3	-3.1	139.6	44.2	1.2	45.8	23	26
56	4.7	123.1	-2.9	124.5	44.3	1.4	45.7	23	37

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 48 A	LAT 50 LAT 48	B LAT 50	HRS	MIN	
707	4.9	315.5	-0.7	314.0	45.7	-1.2	44.3
758	4.3	311.1	-0.8	309.5	45.6	-1.3	44.3
782	4.6	312.7	-0.8	311.2	45.7	-1.2	44.4
783	3.6	319.2	-0.7	317.8	45.8	-1.1	44.3
903	2.6	320.3	-0.6	315.0	45.8	-1.1	44.3
1572	4.5	318.0	-0.7	316.7	45.7	-1.1	44.3
936	3.6	313.5	-0.8	312.1	45.7	-1.2	44.3
947	4.0	313.9	-0.8	312.4	45.7	-1.2	44.3
982	5.2	319.7	-0.6	318.4	45.7	-1.1	44.2
999	4.8	312.5	-0.8	311.0	45.7	-1.2	44.4
2	2.4	315.0	-0.7	313.5	45.7	-1.2	44.3
32	2.8	317.4	-0.7	316.0	45.7	-1.1	44.3
48	2.8	316.6	-0.7	315.2	45.7	-1.1	44.2
122	4.4	316.2	-0.7	314.8	45.7	-1.1	44.2
175	5.4	311.4	-0.8	309.9	45.6	-1.2	44.3
182	4.2	317.1	-0.7	315.7	45.8	-1.1	44.3
237	4.4	315.0	-0.7	313.5	45.7	-1.2	44.3
292	5.0	314.5	-0.7	313.0	45.7	-1.2	44.3
317	3.5	317.7	-0.7	316.3	45.8	-1.1	44.3
368	3.9	315.1	-0.7	313.7	45.7	-1.2	44.3
398	5.2	312.2	-0.8	310.7	45.7	-1.2	44.4
417	2.0	319.3	-0.7	318.0	45.8	-1.1	44.3
456	3.4	312.1	-0.8	310.6	45.7	-1.2	44.3
467	5.4	314.2	-0.9	312.7	45.7	-1.2	44.3
500	5.4	316.5	-0.7	315.1	45.7	-1.1	44.2
571	3.5	315.0	-0.7	313.5	45.8	-1.2	44.4
599	4.1	314.3	-0.8	312.9	45.7	-1.2	44.3
627	4.9	314.3	-0.8	312.9	45.7	-1.2	44.3
671	3.9	311.7	-0.8	310.2	45.7	-1.2	44.4
707	4.3	311.7	-0.8	310.2	45.7	-1.2	44.4
758	4.3	311.7	-0.8	310.2	45.7	-1.2	44.4
783	3.6	311.7	-0.8	310.2	45.7	-1.2	44.4
782	4.6	312.7	-0.8	311.2	45.7	-1.2	44.4
803	2.6	320.3	-0.6	315.0	45.8	-1.1	44.3
1572	4.5	318.0	-0.7	316.7	45.7	-1.1	44.3
936	3.6	313.5	-0.8	312.1	45.7	-1.2	44.3
947	4.0	313.9	-0.8	312.4	45.7	-1.2	44.3
982	5.2	319.7	-0.6	318.4	45.7	-1.1	44.2
999	4.8	312.5	-0.8	311.0	45.7	-1.2	44.4
2	2.4	315.0	-0.7	313.5	45.7	-1.2	44.3
32	2.8	317.4	-0.7	316.0	45.7	-1.1	44.3
48	2.8	316.6	-0.7	315.2	45.7	-1.1	44.2
122	4.4	316.2	-0.7	314.8	45.7	-1.1	44.2
175	5.4	311.4	-0.8	309.9	45.6	-1.2	44.3
182	4.2	317.1	-0.7	315.7	45.8	-1.1	44.3
237	4.4	315.0	-0.7	313.5	45.7	-1.2	44.3
292	5.0	314.5	-0.7	313.0	45.7	-1.2	44.3
317	3.5	317.7	-0.7	316.3	45.8	-1.1	44.3
368	3.9	315.1	-0.7	313.7	45.7	-1.2	44.3
398	5.2	312.2	-0.8	310.7	45.7	-1.2	44.4
417	2.0	319.3	-0.7	318.0	45.8	-1.1	44.3
456	3.4	312.1	-0.8	310.6	45.7	-1.2	44.3
467	5.4	314.2	-0.9	312.7	45.7	-1.2	44.3
500	5.4	316.5	-0.7	315.1	45.7	-1.1	44.2
571	3.5	315.0	-0.7	313.5	45.8	-1.2	44.4
599	4.1	314.3	-0.8	312.9	45.7	-1.2	44.3
627	4.9	314.3	-0.8	312.9	45.7	-1.2	44.3
671	3.9	311.7	-0.8	310.2	45.7	-1.2	44.4

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 48 A	LAT 50 LAT 48	B LAT 50	HRS	MIN	
943	4.9	226.4	-3.0	224.9	44.3	-1.2	45.7
955	3.6	222.0	-3.1	220.7	44.2	-1.1	45.7
985	4.7	229.1	-3.0	226.6	44.3	-1.2	45.7
1625	5.4	222.4	-3.1	221.1	44.2	-1.1	45.7
125	4.3	228.7	-3.0	227.2	44.3	-1.2	45.7
157	4.5	227.5	-3.0	226.1	44.4	-1.2	45.7
1169	5.1	226.9	-3.0	225.4	44.3	-1.2	45.7
256	3.4	228.9	-3.0	227.4	44.4	-1.2	45.7
1133	4.9	226.3	-3.1	224.9	44.3	-1.2	45.7
1211	5.3	222.5	-3.1	221.2	44.3	-1.1	45.8
1233	5.1	222.3	-3.1	221.0	44.3	-1.1	45.8
337	4.3	226.0	-3.1	224.6	44.3	-1.2	45.7
1246	5.1	224.2	-3.1	222.9	44.3	-1.1	45.7
785	1.3	226.4	-3.1	225.0	44.3	-1.2	45.7
409	5.3	221.8	-3.1	220.5	44.2	-1.1	45.7
488	3.0	223.3	-3.1	221.9	44.3	-1.1	45.8
1372	5.3	229.3	-3.0	227.8	44.3	-1.2	45.6
635	4.9	223.4	-3.0	222.0	44.3	-1.2	45.7
656	2.1	227.8	-3.0	226.3	44.3	-1.2	45.7
725	5.1	224.7	-3.1	223.3	44.2	-1.1	45.7
1573	5.2	225.8	-3.0	224.4	44.3	-1.2	45.7
741	2.8	221.7	-3.1	220.4	44.3	-1.1	45.8
768	4.0	223.7	-3.1	222.3	44.2	-1.1	45.7

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 48 A	LAT 50 LAT 48	B LAT 50	HRS	MIN	
237	4.4	45.1	-0.7	46.5	45.7	1.2	44.3
292	5.0	45.4	-0.8	46.9	45.7	1.2	44.3
317	3.5	42.3	-0.7	43.7	45.8	1.1	44.3
368	3.9	44.9	-0.7	46.3	45.7	1.2	44.3
398	5.2	47.9	-0.8	49.4	45.7	1.2	44.4
417	2.0	40.7	-0.7	42.0	45.8	1.1	44.3
456	3.4	47.9	-0.8	49.4	45.6	1.2	44.3
467	5.4	45.8	-0.8	47.3	45.7	1.2	44.3
500	5.4	43.5	-0.7	44.9	45.7	1.1	44.3
571	3.5	45.0	-0.7	46.4	45.8	1.2	44.4
599	4.1	45.7	-0.8	47.1	45.7	1.2	44.3
627	4.9	48.4	-0.8	49.9	45.7	1.2	44.4
671	3.9	48.4	-0.9	49.9	45.6	1.2	44.3
707	4.3	44.5	-0.7	46.0	45.7	1.2	44.3
758	4.3	49.3	-0.8	50.5	45.6	1.3	44.3
783	3.6	41.9	-0.7	42.2	45.8	1.2	44.3
782	4.6	47.4	-0.8	48.9	45.7	1.2	44.3
803	2.6	39.9	-0.6	41.1	45.7	1.1	44.2
1572	4.5	42.0	-0.7	43.4	45.7	1.1	44.2
936	3.6	46.4	-0.8	47.9	45.7	1.2	44.4
947	4.0	46.1	-0.8	47.6	45.7	1.2	44.3
982	5.2	40.3	-0.6	41.6	45.7	1.1	44.2
999	4.9	47.6	-0.8	49.1	45.7	1.2	44.3
2	2.4	45.1	-0.7	46.5	45.7	1.2	44.3
32	2.8	42.6	-0.7	44.0	45.7	1.1	44.3
48	2.8	43.4	-0.7	44.8	45.7	1.1	44.2
122	4.4	43.7	-0.7	45.1	45.8	1.1	44.3
175	5.4	48.6	-0.8	50.1	45.7	1.2	44.3
182	4.2	42.9	-0.7	44.3	45.7	1.1	44.2

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT 48 A	LAT 50 LAT 48	B LAT 50	HRS	MIN	
125	4.3	131.2	-3.0	132.7	44.4	1.2	45.7
150	4.7	132.5	-3.0	133.9	44.4	1.2	45.7
1169	5.1	132.9	-3.0	130.4	44.4	1.2	45.7
256	3.4	131.3	-3.0	132.8	44.3	1.2	45.6
1193	4.9	133.6	-3.0	135.1	44.4	1.2	45.8
1201	5.3	137.7	-3.1	139.3	44.2	1.1	45.7
337	4.3	134.1	-3.0	135.5	44.3	1.2	45.7
1238	5.1	137.9	-3.1	139.2	44.2	1.1	45.7
1246	5.1	135.8	-3.1	137.2	44.2	1.1	45.7
380	1.3	133.7	-3.0	135.1	44.3	1.2	45.7
409	5.3	133.1	-3.1	139.4	44.2	1.1	45.8
488	3.0	136.9	-3.1	138.3	44.2	1.1	45.7
1372	5.3	130.6	-3.0	132.1	44.4	1.2	45.7
635	4.9	131.7	-3.0	133.1	44.3	1.2	45.7
656	2.1	132.2	-3.0	133.7	44.3	1.2	45.7
725	5.1	135.1	-3.1	136.5	44.3	1.1	45.8
1503	5.2	134.2	-3.0	135.6	44.3	1.2	45.7
741	2.8	138.4	-3.1	139.8	44.2	1.1	45.7
768	4.0	136.1	-3.1	137.5	44.3	1.1	45.8
843	4.9	133.6	-3.0	135.0	44.3	1.2	45.7
855	3.6	139.4	-3.1	139.3	44.2	1.1	45.7
995	4.7	131.8	-3.0	133.3	44.4	1.2	45.7
1625	5.4	137.5	-3.1	138.9	44.2	1.1	45.7

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 50	A LAT 52	LAT 50	B LAT 52			HRS	MIN
707	4.9	315.0	-0.8	313.6	45.7	-1.1	44.3	0	23
782	4.6	312.1	-0.9	310.6	45.7	-1.2	44.4	2	10
783	3.6	318.8	-0.8	317.5	45.8	-1.0	44.3	2	28
803	2.6	320.0	-0.8	318.7	45.8	-1.0	44.2	3	4
1572	4.5	317.6	-0.8	316.3	45.7	-1.1	44.2	3	24
836	3.6	313.0	-0.9	311.5	45.6	-1.2	44.3	3	37
930	5.4	320.2	-0.7	318.9	45.7	-1.0	44.2	3	51
847	4.0	313.4	-0.9	311.9	45.7	-1.2	44.4	3	57
882	5.2	319.4	-0.8	318.1	45.7	-1.0	44.2	5	8
899	4.8	311.9	-0.9	310.4	45.7	-1.2	44.4	5	18
2	2.4	314.5	-0.9	313.0	45.7	-1.1	44.3	5	39
16	4.2	320.4	-0.7	319.2	45.7	-1.0	44.2	6	19
32	2.8	317.0	-0.8	315.6	45.7	-1.1	44.3	6	33
48	2.8	316.2	-0.8	314.8	45.7	-1.1	44.3	7	0
122	4.4	315.8	-0.8	314.4	45.7	-1.1	44.3	9	2
182	4.2	316.7	-0.8	315.3	45.8	-1.1	44.3	10	39
237	4.4	314.5	-0.9	313.0	45.7	-1.1	44.3	11	49
292	5.0	314.0	-0.9	312.6	45.7	-1.1	44.3	13	11
317	3.5	317.3	-0.8	315.9	45.7	-1.1	44.3	14	7
368	3.9	314.6	-0.9	313.2	45.7	-1.1	44.3	15	21
298	5.2	311.5	-0.9	310.0	45.6	-1.2	44.3	15	57
417	2.0	319.0	-0.8	317.7	45.8	-1.0	44.3	16	46
456	3.4	311.5	-0.9	310.0	45.7	-1.2	44.4	17	38
467	5.4	313.7	-0.9	312.2	45.7	-1.2	44.3	17	58
500	5.4	316.1	-0.8	314.7	45.7	-1.1	44.3	19	3
571	3.5	314.5	-0.9	313.1	45.7	-1.1	44.4	20	56
598	4.1	313.8	-0.9	312.4	45.7	-1.1	44.3	21	31
671	5.1	320.2	-0.7	318.9	45.8	-1.0	44.2	21	33
671	3.9	311.1	-0.9	309.6	45.7	-1.2	44.4	23	16

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 50	A LAT 52	LAT 50	B LAT 52			HRS	MIN
237	4.4	45.5	-0.9	47.0	45.7	1.1	44.3	0	47
292	5.0	45.9	-0.9	47.4	45.7	1.1	44.4	2	11
317	3.5	42.7	-0.8	44.1	45.7	1.1	44.3	2	50
368	3.9	45.3	-0.9	46.8	45.7	1.1	44.3	4	18
398	5.2	48.4	-0.9	49.9	45.7	1.2	44.4	5	10
417	2.0	41.0	-0.8	42.3	45.8	1.0	44.3	5	19
456	3.4	48.5	-0.9	50.0	45.7	1.2	44.4	6	51
467	5.4	46.3	-0.9	47.6	45.7	1.2	44.3	7	0
500	5.4	43.9	-0.8	45.3	45.8	1.1	44.3	7	52
571	3.5	45.5	-0.9	46.9	45.7	1.1	44.4	9	53
587	5.1	39.8	-0.7	41.1	45.7	1.0	44.2	10	0
598	4.1	46.1	-0.9	47.6	45.7	1.1	44.3	10	32
671	3.9	48.9	-0.8	50.5	45.6	1.2	44.3	12	31
707	4.9	44.9	-0.8	46.4	45.8	1.1	44.4	13	18
783	3.6	41.2	-0.8	42.5	45.8	1.0	44.3	15	2
782	4.6	47.9	-0.9	49.4	45.7	1.2	44.3	15	20
803	2.6	40.0	-0.8	41.3	45.8	1.0	44.3	15	32
1572	4.5	42.3	-0.8	43.7	45.8	1.1	44.3	16	5
836	5.4	39.8	-0.7	41.1	45.7	1.0	44.2	16	18
836	3.6	47.0	-0.9	48.5	45.7	1.2	44.3	16	43
847	4.0	46.6	-0.9	48.1	45.7	1.2	44.4	17	0
882	5.2	40.5	-0.8	41.8	45.8	1.0	44.3	17	39
899	4.8	48.1	-0.9	49.6	45.7	1.2	44.3	18	29
2	2.4	45.5	-0.9	46.9	45.7	1.1	44.3	18	37
16	4.2	39.5	-0.7	40.8	45.8	1.0	44.3	18	44
32	2.8	43.0	-0.8	44.4	45.7	1.1	44.3	19	18
48	2.8	43.8	-0.8	45.2	45.7	1.1	44.3	19	49
122	4.4	44.2	-0.8	45.6	45.7	1.1	44.3	21	53
182	4.2	43.3	-0.8	44.7	45.7	1.1	44.3	23	25

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 50	A LAT 52	LAT 50	B LAT 52			HRS	MIN
871	2.6	230.2	-3.0	228.7	44.3	-1.2	45.6	1	10
895	4.7	222.6	-3.1	221.3	44.2	-1.1	45.7	1	24
7	2.9	230.1	-3.0	228.6	44.3	-1.2	45.6	2	27
53	3.7	230.7	-3.0	229.2	44.4	-1.2	45.7	3	47
170	5.5	231.0	-3.0	229.5	44.3	-1.2	45.7	5	5
125	4.3	223.5	-3.1	222.2	44.3	-1.1	45.8	5	28
150	4.0	222.1	-3.1	220.7	44.3	-1.0	45.8	5	54
1125	4.8	229.4	-3.0	227.9	44.4	-1.2	45.7	6	46
1136	5.2	227.6	-3.0	226.2	44.3	-1.1	45.7	7	1
1169	5.1	221.4	-3.1	220.1	44.2	-1.0	45.7	8	8
232	4.4	229.2	-3.0	227.7	44.3	-1.2	45.6	9	19
256	3.4	223.7	-3.1	222.4	44.3	-1.1	45.8	9	43
444	2.2	229.0	-3.0	227.5	44.3	-1.2	45.6	14	0
1349	5.2	226.8	-3.0	225.3	44.3	-1.1	45.7	15	34
1272	5.3	224.1	-3.1	222.7	44.3	-1.1	45.7	16	19
613	4.5	227.2	-3.0	225.7	44.3	-1.1	45.7	18	32
635	4.9	223.2	-3.1	221.9	44.3	-1.1	45.8	19	2
656	2.1	222.3	-3.1	221.0	44.2	-1.0	45.7	19	29
716	3.0	226.4	-3.0	225.0	44.3	-1.1	45.7	21	10
712	4.2	230.2	-3.0	228.7	44.4	-1.2	45.7	21	14
1526	5.0	230.4	-3.0	228.9	44.4	-1.2	45.7	22	20
778	4.5	229.0	-3.0	227.5	44.3	-1.2	45.6	22	57

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 50	A LAT 52	LAT 50	B LAT 52			HRS	MIN
1079	5.5	130.1	-3.0	131.6	44.3	1.2	45.6	0	36
125	4.3	126.6	-3.1	128.0	44.2	1.1	45.7	1	32
150	4.0	137.9	-3.1	139.2	44.3	1.0	45.8	2	5
1125	4.8	130.7	-3.0	132.2	44.3	1.2	45.6	2	20
1136	5.2	132.4	-3.0	133.9	44.3	1.1	45.6	2	43
232	4.4	130.5	-3.0	132.0	44.4	1.2	45.7	3	53
1169	5.1	138.4	-3.1	139.7	44.3	1.0	45.8	4	22
256	3.4	136.5	-3.1	137.8	44.2	1.1	45.7	4	46
444	2.2	131.0	-3.0	132.5	44.3	1.2	45.6	9	36
1349	5.2	133.3	-3.0	134.7	44.3	1.1	45.7	11	21
1372	5.3	135.7	-3.1	137.1	44.3	1.1	45.8	12	18
613	4.5	132.8	-3.0	134.3	44.3	1.1	45.7	14	17
635	4.9	136.8	-3.1	138.1	44.3	1.1	45.8	15	7
656	2.1	137.7	-3.1	139.0	44.2	1.0	45.7	15	39
712	4.2	137.0	-3.0	131.5	44.3	1.2	45.6	16	44
716	3.0	133.6	-3.0	135.0	44.3	1.1	45.7	16	59
1526	5.0	129.7	-3.0	131.2	44.3	1.2	45.6	17	58
778	4.5	130.1	-3.0	131.6	44.3	1.2	45.6	18	28
871	2.6	129.6	-3.1	131.1	44.4	1.2	45.7	20	48
895	4.7	127.3	-3.1	128.6	44.3	1.1	45.7	21	32
7	2.9	129.8	-3.0	131.3	44.4	1.2	45.7	21	57
50	3.7	129.3	-3.0	130.8	44.4	1.2	45.7	23	14

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 52	A LAT 54	LAT 52	B LAT 54	HRS	MIN		
707	4.9	314.7	-1.0	313.3	45.7	-1.1	44.3	1	36
782	4.6	311.7	-1.0	310.1	45.7	-1.1	44.3	2	21
767	4.3	320.6	-0.8	319.3	45.8	-1.0	44.3	2	33
783	3.6	318.7	-0.9	317.3	45.7	-1.0	44.3	2	42
963	2.6	319.9	-0.9	318.6	45.7	-1.0	44.2	3	19
1572	4.5	317.4	-0.9	316.1	45.7	-1.0	44.2	3	38
936	3.6	312.6	-1.0	311.1	45.7	-1.1	44.3	3	49
830	5.4	320.1	-0.9	318.8	45.7	-1.0	44.2	4	6
847	4.0	313.0	-1.0	311.5	45.6	-1.1	44.3	4	9
882	5.2	319.3	-0.9	318.0	45.7	-1.0	44.2	5	23
899	4.8	311.5	-1.0	309.9	45.7	-1.1	44.3	5	29
2	2.4	314.2	-1.0	312.8	45.7	-1.1	44.4	5	52
16	4.2	320.4	-0.8	319.1	45.8	-1.0	44.3	6	35
32	2.8	316.8	-0.9	315.4	45.8	-1.0	44.3	6	47
48	2.8	316.0	-0.9	314.5	45.7	-1.1	44.3	7	13
122	4.4	315.6	-0.9	314.1	45.7	-1.1	44.3	9	15
182	4.2	316.5	-0.9	315.1	45.7	-1.0	44.3	11	52
237	4.4	314.1	-1.0	312.7	45.7	-1.1	44.3	12	1
292	5.0	313.7	-1.0	312.2	45.8	-1.1	44.3	13	23
317	3.5	317.1	-0.9	315.7	45.8	-1.0	44.3	14	21
368	3.9	314.4	-1.0	312.9	45.7	-1.1	44.4	15	34
398	5.2	311.2	-1.0	309.7	45.7	-1.1	44.4	16	9
417	2.0	318.8	-0.9	317.5	45.7	-1.0	44.2	17	0
456	3.4	311.1	-1.0	309.5	45.7	-1.1	44.4	17	49
467	5.4	313.3	-1.0	311.9	45.7	-1.1	44.3	18	10
500	5.4	315.8	-0.9	314.4	45.7	-1.1	44.3	19	15
571	3.5	314.2	-1.0	312.7	45.7	-1.1	44.3	21	8
598	4.1	313.5	-1.0	312.0	45.7	-1.1	44.3	21	43
587	5.1	320.1	-0.9	318.8	45.7	-1.0	44.2	21	48

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 52	A LAT 54	LAT 52	E LAT 54	HRS	MIN		
237	4.4	45.8	-1.0	47.3	45.7	1.1	44.4	0	34
292	5.0	46.3	-1.0	47.7	45.7	1.1	44.3	1	59
317	3.5	42.9	-0.9	44.3	45.8	1.0	44.3	2	36
368	3.9	45.7	-1.0	47.1	45.7	1.1	44.3	4	6
398	5.2	48.9	-1.0	50.4	45.7	1.1	44.4	4	59
417	2.0	41.2	-0.9	42.5	45.7	1.0	44.2	5	5
456	3.4	48.9	-1.0	50.5	45.6	1.1	44.3	6	40
467	5.4	46.7	-1.0	48.1	45.7	1.1	44.3	6	48
500	5.4	44.1	-0.9	45.5	45.7	1.1	44.3	7	39
571	3.5	45.8	-1.0	47.3	45.7	1.1	44.3	9	41
587	5.1	39.8	-0.9	41.1	45.8	1.0	44.3	9	44
598	4.1	46.5	-1.0	48.0	45.7	1.1	44.3	10	20
707	4.9	45.3	-1.0	46.7	45.7	1.1	44.3	13	6
767	4.3	39.4	-0.8	40.7	45.8	1.0	44.2	14	26
783	3.6	41.4	-0.9	42.7	45.7	1.0	44.2	14	48
782	4.6	48.4	-1.0	49.9	45.6	1.1	44.3	15	9
803	2.6	40.1	-0.9	41.4	45.8	1.0	44.2	15	17
1572	4.5	42.5	-0.9	43.9	45.8	1.0	44.3	15	51
830	5.4	39.8	-0.9	41.1	45.8	1.0	44.3	16	2
836	3.6	47.3	-1.0	48.8	45.7	1.1	44.4	16	31
847	4.0	47.0	-1.0	48.4	45.7	1.1	44.4	16	48
882	5.2	40.7	-0.9	42.0	45.7	1.0	44.2	17	25
899	4.8	48.6	-1.0	50.1	45.6	1.1	44.3	18	18
2	2.4	45.8	-1.0	47.3	45.6	1.1	44.3	18	25
16	4.2	39.6	-0.8	40.9	45.8	1.0	44.2	18	29
32	2.8	43.2	-0.9	44.6	45.7	1.0	44.3	19	4
48	2.8	44.0	-0.9	45.5	45.7	1.1	44.3	19	36
122	4.4	44.5	-0.9	45.9	45.7	1.1	44.3	21	40
182	4.2	43.5	-0.9	44.9	45.8	1.0	44.3	23	11

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 52	A	LAT 54	LAT 52	B	LAT 54	HRS	MIN
871	2.6	225.1	-3.1	223.7	44.3	-1.1	45.7	1	7
7	2.9	224.9	-3.1	223.5	44.3	-1.0	45.7	2	15
1020	5.2	230.5	-3.0	228.9	44.3	-1.1	45.6	3	5
50	3.7	225.6	-3.1	224.2	44.3	-1.1	45.7	3	35
1079	5.5	224.9	-3.1	223.4	44.3	-1.0	45.7	4	53
159	3.9	226.7	-3.0	225.2	44.3	-1.1	45.7	6	26
1125	4.8	224.0	-3.1	222.6	44.2	-1.0	45.7	6	33
1136	5.2	222.2	-3.1	220.8	44.3	-1.0	45.8	6	47
168	1.1	229.3	-3.0	227.8	44.3	-1.1	45.6	6	49
1140	4.7	226.0	-3.1	224.6	44.3	-1.1	45.7	7	9
232	4.4	224.0	-3.1	222.7	44.3	-1.0	45.8	8	7
251	1.9	229.4	-3.0	227.9	44.4	-1.1	45.7	9	51
1188	5.3	228.4	-3.0	226.9	44.3	-1.1	45.6	9	24
277	3.7	229.7	-3.0	228.2	44.3	-1.1	45.6	9	32
379	3.6	230.7	-3.0	229.1	44.4	-1.2	45.7	12	24
423	3.4	226.5	-3.0	225.0	44.3	-1.1	45.7	13	20
444	2.2	223.8	-3.1	222.4	44.3	-1.0	45.8	13	48
1308	5.5	227.1	-3.0	225.6	44.3	-1.1	45.7	14	3
570	5.5	226.2	-3.1	224.8	44.3	-1.1	45.7	17	31
593	3.7	226.4	-3.0	225.0	44.3	-1.1	45.7	17	52
591	3.9	227.1	-3.0	225.7	44.3	-1.1	45.7	18	4
613	4.5	221.7	-3.1	220.4	44.3	-1.0	45.8	19	13
1460	4.7	236.3	-3.0	228.8	44.4	-1.1	45.7	20	16
712	4.2	224.8	-3.1	223.4	44.2	-1.0	45.7	21	1
1526	5.0	225.2	-3.1	223.8	44.3	-1.1	45.7	22	17
778	4.5	224.8	-3.1	223.4	44.3	-1.0	45.7	22	45
774	3.9	227.4	-3.0	226.0	44.3	-1.1	45.7	22	48
1541	4.5	228.2	-3.0	226.7	44.3	-1.1	45.7	22	57

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 52	A LAT 54	LAT 52	B LAT 54	HRS	MIN		
1079	5.5	135.2	-3.1	136.6	44.3	1.0	45.7	0	48
159	3.9	133.2	-3.0	134.7	44.4	1.1	45.7	2	11
168	1.1	130.5	-3.0	132.0	44.4	1.1	45.7	2	20
1125	4.8	135.9	-3.1	137.3	44.3	1.0	45.7	2	32
1136	5.2	137.9	-3.1	139.2	44.3	1.0	45.8	2	56
1140	4.7	134.1	-3.1	135.5	44.3	1.1	45.7	2	58
232	4.4	136.0	-3.1	137.4	44.3	1.0	45.7	4	6
251	1.9	130.9	-3.0	132.4	44.3	1.1	45.6	4	23
1188	5.3	131.4	-3.0	132.9	44.3	1.1	45.7	5	0
277	3.7	130.4	-3.0	131.9	44.3	1.1	45.6	5	2
379	3.6	129.5	-3.0	131.0	44.3	1.1	45.6	7	49
423	3.4	123.4	-3.0	124.8	44.3	1.1	45.7	9	6
1308	5.5	132.8	-3.0	134.3	44.3	1.1	45.7	9	46
444	2.2	136.2	-3.1	137.5	44.3	1.0	45.8	9	48
570	5.5	133.5	-3.0	135.0	44.3	1.1	45.7	13	18
583	3.7	133.7	-3.1	135.2	44.3	1.1	45.7	13	39
591	3.9	132.9	-3.0	134.3	44.3	1.1	45.7	13	47
613	4.5	138.3	-3.1	139.6	44.3	1.0	45.8	14	30
1469	4.7	129.9	-3.0	131.4	44.3	1.1	45.6	15	43
712	4.2	135.1	-3.1	136.5	44.3	1.0	45.7	16	56
1526	5.0	134.9	-3.1	136.3	44.3	1.1	45.7	18	10
774	3.9	132.4	-3.0	133.9	44.4	1.1	45.7	18	29
1541	4.5	132.0	-3.0	133.5	44.3	1.1	45.6	18	35
778	4.5	135.2	-3.1	136.6	44.3	1.0	45.7	18	40
871	2.6	135.1	-3.1	136.5	44.2	1.0	45.7	21	1
7	2.9	134.9	-3.1	136.3	44.3	1.1	45.7	22	9
1020	5.2	129.6	-3.0	131.1	44.3	1.1	45.6	22	31
50	3.7	134.5	-3.1	135.9	44.3	1.1	45.7	23	26

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
707	4.9	314.6	-1.1	313.1	45.7	-1.0	44.3	0	49
782	4.6	311.4	-1.1	309.9	45.7	-1.1	44.4	2	33
783	3.6	318.7	-1.0	317.4	45.7	-1.0	44.2	2	57
823	2.6	320.0	-1.0	318.7	45.8	-0.9	44.2	3	35
1572	4.5	317.5	-1.0	316.1	45.8	-1.0	44.3	3	53
836	3.6	312.4	-1.1	310.9	45.6	-1.1	44.3	4	1
847	4.0	312.8	-1.1	311.3	45.7	-1.1	44.4	4	21
830	5.4	322.3	-1.0	319.0	45.7	-0.9	44.2	4	22
882	5.2	319.5	-1.0	318.1	45.8	-0.9	44.3	5	39
899	4.8	311.2	-1.1	309.7	45.7	-1.1	44.4	5	41
2	2.4	314.0	-1.1	312.5	45.6	-1.0	44.3	6	4
32	2.8	316.8	-1.0	315.4	45.7	-1.0	44.3	7	1
48	2.8	315.9	-1.0	314.5	45.7	-1.0	44.3	7	27
122	4.4	315.5	-1.0	314.1	45.8	-1.0	44.3	9	29
182	4.2	316.4	-1.0	315.0	45.7	-1.0	44.3	11	6
237	4.4	314.0	-1.1	312.5	45.7	-1.0	44.3	12	14
292	5.0	313.5	-1.1	312.1	45.7	-1.1	44.3	13	36
317	3.5	317.0	-1.1	315.7	45.7	-1.0	44.3	14	35
368	3.9	314.2	-1.1	312.7	45.6	-1.0	44.3	15	46
398	5.2	317.8	-1.1	309.3	45.6	-1.1	44.3	16	20
417	2.0	318.9	-1.0	317.5	45.7	-1.0	44.2	17	15
467	5.4	313.1	-1.1	311.6	45.6	-1.1	44.3	18	22
500	5.4	315.8	-1.0	314.4	45.7	-1.0	44.3	19	30
571	3.5	314.1	-1.1	312.6	45.7	-1.0	44.3	21	21
598	4.1	313.4	-1.1	311.9	45.7	-1.1	44.4	21	56
597	5.1	320.3	-1.0	319.0	45.7	-0.9	44.2	22	4

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
237	4.4	46.0	-1.1	47.5	45.6	1.0	44.3	0	22
292	5.0	46.5	-1.1	48.0	45.6	1.1	44.3	1	47
317	3.5	42.9	-1.0	44.3	45.7	1.0	44.3	2	22
368	3.9	45.8	-1.1	47.3	45.7	1.0	44.3	3	53
398	5.2	49.2	-1.1	50.7	45.6	1.1	44.3	4	48
417	2.0	41.1	-1.0	42.5	45.7	1.0	44.2	4	50
467	5.4	46.9	-1.1	48.4	45.6	1.1	44.3	6	36
500	5.4	44.3	-1.0	45.7	45.7	1.0	44.3	7	26
571	3.5	46.0	-1.1	47.4	45.7	1.0	44.3	9	28
587	5.1	39.7	-1.0	41.0	45.8	0.9	44.3	9	28
598	4.1	46.6	-1.1	48.1	45.7	1.1	44.4	10	7
707	4.9	45.4	-1.1	46.9	45.7	1.0	44.3	12	53
783	3.6	41.3	-1.0	42.6	45.7	1.0	44.3	14	33
782	4.6	48.6	-1.1	50.1	45.6	1.1	44.3	14	57
803	2.6	40.0	-1.0	41.3	45.8	0.9	44.3	15	1
1572	4.5	42.5	-1.0	43.9	45.7	1.0	44.3	15	37
830	5.4	39.6	-1.0	40.9	45.8	0.9	44.3	15	46
836	3.6	47.6	-1.1	49.1	45.7	1.1	44.3	16	19
847	4.0	47.2	-1.1	48.7	45.7	1.1	44.3	16	36
882	5.2	40.6	-1.0	41.9	45.8	0.9	44.3	17	9
899	4.8	48.8	-1.1	50.3	45.7	1.1	44.4	18	6
2	2.4	46.0	-1.1	47.4	45.7	1.0	44.3	18	12
32	2.8	43.2	-1.0	44.6	45.7	1.0	44.3	18	50
48	2.8	44.1	-1.0	45.5	45.7	1.0	44.3	19	22
122	4.4	44.5	-1.0	45.9	45.7	1.0	44.3	21	26
182	4.2	43.6	-1.0	44.9	45.8	1.0	44.3	22	57

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
1620	5.2	225.0	-3.1	223.6	44.2	-1.0	45.7	2	52
162	3.9	227.3	-3.0	225.8	44.3	-1.0	45.7	6	32
168	1.1	223.0	-3.1	221.5	44.3	-1.0	45.7	6	36
1148	5.3	228.7	-3.0	227.2	44.3	-1.1	45.6	7	43
218	5.5	228.2	-3.0	226.7	44.4	-1.1	45.7	7	59
251	1.9	223.6	-3.1	222.2	44.2	-1.0	45.7	8	37
1188	5.3	223.0	-3.1	221.6	44.3	-1.0	45.8	9	11
277	3.7	224.2	-3.1	222.8	44.3	-1.0	45.7	9	19
1200	5.0	220.7	-3.0	219.1	44.3	-1.1	45.6	11	4
326	4.2	229.7	-3.0	228.2	44.3	-1.1	45.6	11	0
379	3.6	225.2	-3.1	223.8	44.3	-1.0	45.7	12	11
473	5.2	221.6	-3.0	219.0	44.4	-1.1	45.7	14	53
507	4.5	227.5	-3.0	226.0	44.3	-1.0	45.7	15	57
513	2.9	230.7	-3.0	229.2	44.4	-1.1	45.7	16	13
584	4.3	229.6	-3.0	228.1	44.3	-1.1	45.6	18	4
1421	5.3	226.0	-3.1	224.6	44.3	-1.0	45.7	18	14
1454	5.2	229.3	-3.0	227.8	44.4	-1.1	45.7	19	35
1469	4.7	224.0	-3.1	222.5	44.3	-1.0	45.7	20	3
1491	4.4	229.4	-3.0	227.9	44.3	-1.1	45.6	21	2
1513	4.5	227.1	-3.0	225.7	44.3	-1.0	45.7	21	50
743	3.8	230.6	-3.0	228.9	44.3	-1.1	45.6	22	5
774	3.9	221.7	-3.1	219.3	44.2	-0.9	45.8	22	34
1541	4.5	222.4	-3.1	221.1	44.3	-1.0	45.7	22	43

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
162	3.9	132.5	-3.0	134.0	44.4	1.0	45.7	2	11
168	1.1	136.3	-3.1	137.6	44.2	1.0	45.7	2	34
1148	5.3	131.3	-3.0	132.8	44.3	1.1	45.6	3	12
218	5.5	131.9	-3.1	133.4	44.3	1.1	45.7	3	34
251	1.9	136.4	-3.1	137.7	44.3	1.0	45.7	4	36
1188	5.3	137.2	-3.1	138.6	44.2	1.0	45.7	5	14
277	3.7	135.8	-3.1	137.2	44.3	1.0	45.7	5	15
1200	5.0	129.4	-3.0	130.9	44.3	1.1	45.6	5	26
326	4.2	130.3	-3.0	131.8	44.3	1.1	45.7	6	27
379	3.6	134.6	-3.1	136.0	44.3	1.0	45.8	8	1
473	5.2	129.4	-3.0	130.9	44.4	1.1	45.7	10	15
513	2.8	129.6	-3.0	131.0	44.4	1.1	45.6	11	25
507	4.5	132.3	-3.0	133.8	44.4	1.0	45.7	11	35
584	4.3	130.2	-3.0	131.7	44.4	1.1	45.7	12	31
1421	5.3	133.9	-3.1	135.3	44.3	1.0	45.7	14	0
1454	5.2	130.7	-3.0	132.2	44.4	1.1	45.7	15	4
1469	4.7	135.0	-3.1	136.4	44.3	1.0	45.8	15	55
1491	4.4	130.5	-3.0	132.0	44.4	1.1	45.7	16	30
743	3.8	129.6	-3.0	131.1	44.3	1.1	45.6	17	28
1513	4.5	132.8	-3.0	134.2	44.3	1.0	45.7	17	30
774	3.9	138.2	-3.1	139.5	44.3	0.9	45.8	18	43
1541	4.5	137.5	-3.1	138.8	44.3	1.0	45.8	18	48
1020	5.2	134.7	-3.1	136.1	44.3	1.0	45.8	22	43

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
707	4.9	314.7	-1.2	313.3	45.7	-1.0	44.3	1	3
782	4.6	311.3	-1.2	309.8	45.6	-1.0	44.3	2	45
783	3.6	319.0	-1.1	317.7	45.7	-0.9	44.2	3	13
1572	4.5	317.7	-1.1	316.3	45.7	-0.9	44.3	4	8
836	3.6	312.4	-1.2	310.9	45.7	-1.0	44.3	4	14
847	4.0	312.8	-1.2	311.3	45.7	-1.0	44.4	4	34
899	4.8	311.1	-1.2	309.6	45.7	-1.0	44.4	5	53
882	5.2	319.8	-1.1	318.5	45.7	-0.9	44.2	5	55
2	2.4	314.1	-1.2	312.6	45.7	-1.0	44.3	6	18
32	2.8	317.0	-1.1	315.6	45.7	-0.9	44.3	7	16
49	2.8	316.1	-1.1	314.7	45.8	-1.0	44.3	7	42
122	4.4	315.6	-1.1	314.2	45.7	-1.0	44.3	9	43
182	4.2	316.6	-1.1	315.2	45.8	-0.9	44.3	11	21
277	4.4	314.1	-1.2	312.6	45.7	-1.0	44.4	12	28
292	5.0	313.5	-1.2	312.1	45.6	-1.0	44.3	13	49
317	3.5	317.3	-1.1	315.9	45.7	-0.9	44.3	14	50
368	3.9	314.3	-1.2	312.8	45.7	-1.0	44.3	16	0
417	2.0	319.3	-1.1	318.0	45.8	-0.9	44.3	17	32
467	5.4	313.2	-1.2	311.7	45.7	-1.0	44.4	18	36
570	5.4	315.9	-1.1	314.5	45.7	-1.0	44.3	19	44
571	3.5	314.0	-1.2	312.6	45.7	-1.0	44.3	21	34
598	4.1	313.4	-1.2	311.9	45.7	-1.0	44.4	22	9

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
898	5.2	226.8	-3.0	225.4	44.3	-1.0	45.7	2	2
1674	4.9	230.5	-3.0	228.0	44.4	-1.0	45.7	2	34
114	4.5	229.1	-3.0	227.6	44.4	-1.0	45.7	5	27
164	3.6	227.2	-3.0	225.9	44.3	-1.0	45.7	6	39
1135	5.1	226.2	-3.0	224.8	44.3	-1.0	45.7	6	59
1148	5.3	223.0	-3.1	221.6	44.3	-0.9	45.7	7	26
219	5.5	222.1	-3.1	220.8	44.3	-0.9	45.8	7	44
1277	5.0	225.2	-3.1	223.8	44.3	-1.0	45.7	9	51
326	4.2	223.9	-3.1	222.5	44.2	-0.9	45.7	11	46
473	5.2	224.8	-3.1	223.4	44.2	-0.9	45.7	14	39
513	2.8	224.9	-3.1	223.5	44.3	-0.9	45.7	15	59
526	0.2	227.8	-3.0	226.4	44.4	-1.0	45.7	16	28
1378	5.4	227.9	-3.1	226.5	44.4	-1.0	45.7	16	39
584	4.3	223.8	-3.1	222.4	44.2	-0.9	45.7	17	50
699	3.8	227.4	-3.0	225.9	44.3	-1.0	45.7	18	33
1454	5.2	223.5	-3.1	222.2	44.3	-0.9	45.8	19	21
1491	4.4	223.7	-3.1	222.3	44.2	-1.0	45.7	20	48
743	3.8	225.0	-3.1	223.6	44.3	-1.0	45.7	21	52
752	3.7	228.2	-3.0	226.7	44.3	-1.0	45.7	22	12
804	4.3	229.2	-3.0	227.7	44.0	-1.0	45.7	23	38
1570	5.3	227.5	-3.0	226.0	44.3	-1.0	45.7	23	49

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
237	4.4	45.9	-1.2	47.4	45.7	1.0	44.3	0	8
292	5.0	46.4	-1.2	47.9	45.7	1.0	44.3	1	33
317	3.5	42.7	-1.1	44.1	45.7	0.9	44.3	2	7
368	3.9	45.7	-1.2	47.2	45.7	1.0	44.3	3	39
417	2.0	40.7	-1.1	42.0	45.8	0.9	44.3	4	33
467	5.4	46.9	-1.2	48.4	45.6	1.0	44.3	6	23
500	5.4	44.1	-1.1	45.5	45.7	1.0	44.3	7	11
571	3.5	46.0	-1.2	47.4	45.7	1.0	44.3	9	15
598	4.1	46.6	-1.2	48.1	45.7	1.0	44.4	9	54
707	4.9	45.3	-1.2	46.8	45.7	1.0	44.3	12	39
783	3.6	41.0	-1.1	42.3	45.7	0.9	44.2	14	17
782	4.6	48.7	-1.2	50.3	45.6	1.0	44.3	14	45
1572	4.5	42.3	-1.1	43.7	45.7	0.9	44.2	15	22
836	3.6	47.6	-1.2	49.1	45.7	1.0	44.4	16	6
847	4.0	47.2	-1.2	48.7	45.7	1.0	44.4	16	23
882	5.2	40.2	-1.1	41.5	45.7	0.9	44.2	16	53
899	4.8	48.9	-1.2	50.4	45.6	1.0	44.3	17	54
2	2.4	45.9	-1.2	47.3	45.7	1.0	44.3	17	58
32	2.8	43.0	-1.1	44.4	45.7	0.9	44.3	18	35
48	2.8	43.9	-1.1	45.3	45.8	1.0	44.3	19	7
122	4.4	44.4	-1.1	45.8	45.7	1.0	44.3	21	12
182	4.2	43.4	-1.1	44.8	45.7	0.9	44.3	22	43

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D		L.S.T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
114	4.5	130.9	-3.0	132.4	44.4	1.0	45.7	0	54
164	3.6	132.8	-3.0	134.2	44.3	1.0	45.7	2	16
1135	5.1	134.0	-3.1	135.4	44.3	1.0	45.7	2	42
1148	5.3	137.0	-3.1	138.4	44.3	0.9	45.7	3	26
218	5.5	138.0	-3.1	139.3	44.2	0.9	45.7	3	49
1200	5.0	134.8	-3.1	136.2	44.3	1.0	45.7	5	39
326	4.2	136.1	-3.1	137.4	44.2	0.9	45.7	6	41
473	5.2	135.1	-3.1	136.5	44.3	0.9	45.7	10	29
513	2.8	134.9	-3.1	136.3	44.3	1.0	45.7	11	48
526	0.2	132.3	-3.0	133.8	44.3	1.0	45.7	12	2
1378	5.4	132.0	-3.0	133.5	44.4	1.0	45.7	12	12
584	4.3	136.0	-3.1	137.4	44.3	0.9	45.8	13	45
609	3.8	132.6	-3.0	134.0	44.3	1.0	45.7	14	9
1454	5.2	136.5	-3.1	137.9	44.3	0.9	45.7	15	18
1491	4.4	136.2	-3.1	137.6	44.3	0.9	45.7	16	44
743	3.8	135.0	-3.1	136.4	44.3	1.0	45.7	17	41
752	3.7	131.9	-3.0	133.3	44.3	1.0	45.6	17	44
804	4.3	130.7	-3.0	132.2	44.4	1.0	45.7	19	4
1570	5.3	132.6	-3.0	134.1	44.3	1.0	45.6	19	25
898	5.2	133.2	-3.0	134.6	44.3	1.0	45.7	21	41
1004	4.9	129.7	-3.0	131.3	44.3	1.0	45.6	21	54

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 58	A	LAT 60	LAT 58	B	LAT 60			HRS	MIN
727	4.9	315.1	-1.2	313.6	45.7	-0.9	44.3	1	18		
782	4.6	311.4	-1.3	309.9	45.7	-1.0	44.4	2	58		
783	3.6	319.6	-1.2	318.3	45.7	-0.8	44.2	3	30		
1572	4.5	318.2	-1.2	316.8	45.7	-0.9	44.2	4	24		
836	3.6	312.6	-1.3	311.1	45.7	-1.0	44.4	4	28		
947	4.0	312.0	-1.3	311.4	45.6	-1.0	44.3	4	47		
899	4.8	311.2	-1.3	309.7	45.7	-1.0	44.4	6	6		
2	2.4	314.3	-1.3	312.0	45.7	-0.9	44.3	6	32		
22	2.8	317.4	-1.2	316.1	45.8	-0.9	44.3	7	32		
48	2.8	316.5	-1.2	315.1	45.7	-0.9	44.3	7	57		
122	4.4	316.0	-1.2	314.6	45.7	-0.9	44.3	9	58		
182	4.2	317.0	-1.2	315.6	45.7	-0.9	44.3	11	36		
237	4.4	314.3	-1.3	312.9	45.7	-0.9	44.3	12	42		
292	5.0	313.8	-1.3	312.3	45.6	-0.9	44.3	14	3		
317	3.5	317.7	-1.2	316.4	45.7	-0.9	44.3	15	6		
368	3.9	314.5	-1.3	313.0	45.7	-0.9	44.3	16	14		
417	3.9	319.9	-1.2	318.6	45.8	-0.8	44.3	17	49		
467	5.4	313.3	-1.3	311.8	45.6	-0.9	44.3	18	40		
560	5.4	316.4	-1.2	315.0	45.8	-0.9	44.3	20	1		
571	3.5	314.4	-1.3	313.0	45.7	-0.9	44.3	21	49		
598	4.1	313.6	-1.3	312.1	45.7	-0.9	44.4	22	23		

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 58	A	LAT 60	LAT 58	B	LAT 60			HRS	MIN
1004	4.0	224.5	-3.1	223.1	44.2	-0.9	45.7	2	19		
1032	4.9	227.8	-3.0	226.3	44.4	-0.9	45.7	3	25		
66	2.7	227.0	-3.0	225.5	44.4	-0.9	45.7	4	6		
114	4.5	223.7	-3.1	221.7	44.3	-0.9	45.8	5	12		
1089	5.0	227.7	-3.0	226.2	44.3	-0.9	45.7	5	28		
1094	5.2	228.2	-3.0	226.9	44.4	-0.9	45.7	5	36		
184	4.7	225.8	-3.0	224.3	44.3	-1.0	45.6	7	22		
211	3.0	228.5	-3.0	227.0	44.4	-1.0	45.7	7	53		
1173	4.1	225.1	-3.1	223.7	44.3	-0.9	45.7	9	35		
269	3.9	226.5	-3.0	225.1	44.3	-0.9	45.7	9	14		
321	5.5	225.2	-3.0	224.9	44.3	-0.9	45.7	10	42		
1228	4.7	229.7	-3.0	228.2	44.3	-1.0	45.6	11	2		
422	2.6	226.5	-3.0	225.0	44.3	-0.9	45.7	13	24		
1004	4.5	225.4	-3.1	224.0	44.3	-0.9	45.7	13	55		
618	2.9	229.6	-3.1	228.1	44.3	-1.0	45.6	18	49		
693	3.0	230.5	-3.0	229.0	44.4	-1.0	45.7	20	45		
703	4.3	226.2	-3.0	224.7	44.3	-0.9	45.7	20	55		
752	3.7	222.1	-3.0	220.8	44.3	-0.9	45.9	21	57		
1004	4.9	228.4	-3.0	226.9	44.4	-1.0	45.7	22	54		
66	4.3	223.1	-3.1	221.8	44.3	-0.9	45.7	23	23		

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 58	A	LAT 60	LAT 58	B	LAT 60			HRS	MIN
292	5.0	46.2	-1.3	47.6	45.7	0.9	44.3	1	19		
317	3.5	42.2	-1.2	43.6	45.7	0.9	44.3	1	51		
368	3.9	45.5	-1.3	46.9	45.7	0.9	44.3	3	25		
417	2.0	40.1	-1.2	41.4	45.8	0.9	44.3	4	16		
467	5.4	46.7	-1.3	48.2	45.6	0.9	44.3	6	5		
500	5.4	43.7	-1.2	45.1	45.7	0.9	44.3	6	56		
571	3.5	45.6	-1.3	47.0	45.7	0.9	44.3	9	0		
598	4.1	46.4	-1.3	47.9	45.7	0.9	44.4	9	49		
707	4.9	45.0	-1.2	46.4	45.7	0.9	44.3	12	24		
783	3.6	40.3	-1.2	41.6	45.8	0.9	44.3	13	59		
782	4.6	48.6	-1.3	50.1	45.6	1.0	44.3	14	32		
1572	4.5	41.7	-1.2	43.1	45.8	0.9	44.3	15	5		
836	3.6	47.5	-1.3	49.0	45.6	1.0	44.3	15	53		
847	4.0	47.1	-1.3	48.6	45.6	1.0	44.3	16	10		
899	4.8	48.8	-1.3	50.3	45.7	1.0	44.4	17	41		
2	2.4	45.6	-1.3	47.1	45.7	0.9	44.3	17	44		
32	2.8	42.6	-1.2	43.9	45.8	0.9	44.3	18	19		
48	2.8	43.5	-1.2	44.9	45.7	0.9	44.3	18	52		
122	4.4	44.0	-1.2	45.4	45.7	0.9	44.3	20	57		
182	4.2	43.0	-1.2	44.4	45.7	0.9	44.3	22	27		
237	4.4	45.7	-1.3	47.1	45.7	0.9	44.3	23	54		

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 58	A	LAT 60	LAT 58	B	LAT 60			HRS	MIN
1089	5.0	132.2	-3.0	133.6	44.3	0.9	45.7	0	59		
1094	5.2	131.7	-3.0	133.2	44.4	1.0	45.7	1	4		
114	4.5	137.0	-3.1	138.4	44.3	0.9	45.8	1	9		
184	4.7	130.3	-3.0	131.9	44.3	1.0	45.6	2	42		
211	3.0	131.6	-3.0	133.0	44.4	1.0	45.7	3	20		
1173	4.1	135.1	-3.1	136.4	44.3	0.9	45.7	4	21		
269	3.9	133.6	-3.0	135.1	44.3	0.9	45.7	4	52		
321	5.5	133.7	-3.0	135.2	44.3	0.9	45.8	6	21		
1228	4.7	130.2	-3.0	131.7	44.4	1.0	45.7	6	22		
422	2.6	133.5	-3.0	134.9	44.3	0.9	45.7	9	2		
1304	4.5	134.6	-3.1	136.0	44.3	0.9	45.7	9	30		
618	2.8	130.1	-3.0	131.7	44.4	1.0	45.7	14	5		
690	3.9	129.6	-3.0	131.1	44.3	1.0	45.6	16	1		
703	4.3	132.9	-3.0	135.4	44.3	0.9	45.7	16	35		
752	3.7	137.9	-3.1	139.3	44.3	0.9	45.6	17	59		
1539	4.8	131.5	-3.0	133.0	44.4	1.0	45.7	18	21		
804	4.3	136.8	-3.1	138.1	44.3	0.9	45.8	19	19		
1004	4.9	135.5	-3.1	136.9	44.3	0.9	45.7	22	8		
1032	4.9	132.3	-3.0	133.8	44.3	0.9	45.7	22	56		
66	2.7	133.0	-3.0	134.4	44.4	0.9	45.7	23	41		

